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Annual Index — 1990

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Index of Mathematical Papers Volume 22

American Mathematical Society

Providence, Rhode Island USA

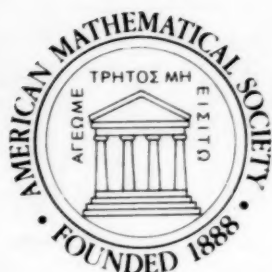
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 Sapozhenko, A. A. *see* Gavrilov, G. P., 90m:00011
 (Wadhwa, Natalia V.) *see* Gavrilov, G. P., 90m:00011
 (Wadhwa, R. S.) *see* Gavrilov, G. P., 90m:00011

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- Chebotaevskii, B. D. *see* Duzhin, S. V., 90d:00005
 (Conway, John Horton) *see* Gardner, Martin, 90d:00006
 Duzhin, S. V. (with Chebotaevskii, B. D.) ★ От орнаментов до дифференциальных уравнений. (Russian) [From ornaments to differential equations] 90d:00005
 Gardner, Martin ★ Gardner's whys & wherefores. 90c:00003
 — ★ Mathematical carnival. 90d:00006
 — *see also* Rucker, Rudy, (Not in MR)
 Hammersley, J. M. Room to wriggle. 90b:00005
 Rucker, Rudy ★ The fourth dimension. (Not in MR)

Items with secondary classifications in 00A08

- Beasley, J. D. ★ The mathematics of games. 90k:90181
 Boltysanskii, V. G. Rotation and central symmetry. (Russian) 90m:51005
 Davis, Philip J. ★ Thomas Gray, philosopher cat. 90c:01006
 (Dorian, Marguerite) *see* Davis, Philip J., 90c:01006
 Sallows, Lee C. F. A curious new result in switching theory. 90k:94036
 Specker, Ernst Postmoderne Mathematik: Abschied vom Paradies? (English and French summaries) [Post-modern mathematics: departure from paradise?] 90d:00058
 Yu, L.-X. Symmetry in Chinese arts and crafts. 90d:01008

00A10 Collections of papers (miscellaneous content)

- (Abutaliev, E. B.) *see* Numerical and analytical methods for solving problems in mathematics and mechanics, 90d:00026
 (Agoshkov, V. I.) *see* Conjugate equations and perturbation algorithms, 90b:00002
 (Aleksandrova, R. S.) *see* Constructive theory of functions and functional analysis, 90j:00008
 (Anderson, T. W.) *see* Probability, statistics, and mathematics, 90j:00012
 (Ashirov, S. A.) *see* Investigations in the theory of differential equations, 90d:00022
 (Athreya, Krishna B.) *see* Probability, statistics, and mathematics, 90j:00012
 (Azbelev, N. V.) *see* Boundary value problems, 90d:00012 and 90k:00017
 (Badalov, F. B.) *see* Numerical and analytical methods for solving problems in mathematics and mechanics, 90d:00026
 (Ball, Robin) *see* Fractals in the natural sciences, 90m:00020

- (Bănzaru, T.) *see* Proceedings: Seminar on Mathematics and Physics, 90a:00010
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 (Berman, S. D.) *see* Representation theory, group rings, and coding theory, 90a:00012
 (Bihikov, Yu. N.) *see* Dynamic processes and their stability, 90d:00018
 (Boikov, I. V.) *see* Optimal computation methods and their application, 90d:00028
 (Borisovich, Yu. G.) *see* Topological and geometric methods of analysis, 90k:00023
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 (Colombini, Ferruccio) *see* Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
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 (Cristici, Borislav) *see* Proceedings: Seminar on Mathematics and Physics, 90a:00010
 (Déchamps-Gondim, Myriam) *see* Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001
 (De Giorgi, E.) *see* Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
 (Derogovtsev, A. Ya.) *see* Mathematics today '89, 90d:00023 and Mathematics today '87, 90b:00009
 (Engel'son, E.) *see* Topological spaces and their mappings, 90j:00014
 (Fang, Li Zhi) *see* Advances in science of China. Physics, 90d:00007
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 (Fushchich, V. I.) *see* Symmetric analysis and solutions of equations of mathematical physics, 90d:00033
 (Gamkrelidze, R. V.) *see* Mathematical analysis, 90h:00006; Algebra. Topology. Geometry, 90k:00015; 90m:00012 and Current problems in mathematics. Newest results, 90m:00017
 (Gardner, Elizabeth Jane) *see* Special Issue: In memory of Elizabeth Gardner, 1957-1988, (Not in MR)
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 (Godunov, S. K.) *see* Functional analysis and mathematical physics, 90k:00020
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 (Natanson, I. N.) *see* Approximation of functions by special classes of operators, 90d:00009
 (Nazarov, A. N.) *see* Problems in mathematical analysis and its applications, 90d:00029
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- Moscow** ★ Математическое моделирование. (Russian) [Mathematical modeling] 90a:00006
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- Numerical and analytical methods for solving problems in mathematics and mechanics** ★ Численные и аналитические методы решения задач математики и механики. (Russian) [Numerical and analytical methods for solving problems in mathematics and mechanics] 90d:00026
- Numerical methods in problems of mathematical modeling** ★ Численные методы в задачах математического моделирования. (Russian) [Numerical methods in problems of mathematical modeling] 90d:00027
- Numerical methods in problems of mathematical physics** ★ Численные методы в задачах математической физики. (Russian) [Numerical methods in problems of mathematical physics] 90a:00008
- Numerical processing and its applications to mathematical research** ★ Sudai shori to sugaku kenkyu e no ôyô. (Japanese) [Numerical processing and its applications to mathematical research] 90c:00004
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- Problems in mathematical analysis and its applications** ★ Вопросы математического анализа и его приложения. (Russian) [Problems in mathematical analysis and its applications] 90d:00029
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- Problems in numerical and applied mathematics** ★ Вопросы вычислительной и прикладной математики. (Russian) [Problems in numerical and applied mathematics] 90d:00031
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- Problems of bionics** ★ Проблемы бионики. Вып. 43. (Russian) [Problems of bionics. No. 43] 90h:00011
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- Bourbaki** ★ Séminaire Bourbaki. Vol. 1988/89. (French) [Seminar Bourbaki. Vol. 1988/89] 90m:00029
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- In memory of Elizabeth Gardner, 1957–1988** ★ Special issue in memory of Elizabeth Gardner, 1957–1988. (Not in MR)
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- Bibliography:**
- Leite Lopes, José ★ Leite Lopes Festschrift. 90d:81002
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- Volterra Integrodifferential Equations in Banach Spaces and Applications** ★ Volterra integrodifferential equations in Banach spaces and applications. 90d:00047
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- ★ Тезисы II Конференции Молодых Ученых Сибири и Дальнего Востока. (Russian) [Abstracts of the Second Conference of Young Scientists in Siberia and the Far East] (Not in MR)
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- Computational and Applied Mathematics** ★ Proceedings of the 3rd International Congress on Computational and Applied Mathematics. 90m:00042
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- Control and estimation of distributed parameter systems** ★ Control and estimation of distributed parameter systems. 90h:00012
- Copenhagen** ★ The Harald Bohr Centenary. 90h:00013
- Current progress in hyperbolic systems: Riemann problems and computations** ★ Current progress in hyperbolic systems: Riemann problems and computations. 90i:00003
- Differential equations** ★ Differential equations. 90f:00003
- Differential equations and applications** ★ Differential equations and applications. Vol. I, II. 90j:00016
- Dundee** ★ Ordinary and partial differential equations. Vol. II. 90h:00018
- Dushanbe** ★ Сборник трудов Всесоюзной Школы по Теории Функций. (Russian) [A collection of papers from the All-Union School on the Theory of Functions] 90a:00020
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- ★ Fractals in physics. 90d:00038
- Function spaces, differential operators and nonlinear analysis** ★ Function spaces, differential operators and nonlinear analysis. 90j:00020
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- Harald Bohr Centenary** ★ The Harald Bohr Centenary. 90h:00013
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- Heimoldorf** ★ Mathematische Verfahrenstechnik. (German) [Mathematical methods in software design] 90h:00009
- Inverse and ill-posed problems** ★ Inverse and ill-posed problems. 90i:00004
- Inverse problems: an interdisciplinary study** ★ Inverse problems: an interdisciplinary study. 90d:00040
- Irregularities of partitions** ★ Irregularities of partitions. 90a:00022
- Järnala** ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
- Lecture Notes in Computer Science** ★ Symbolic and algebraic computation. 90i:00005
- Lecture Notes in Mathematics** ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- ★ Quantum probability and applications. IV. 90f:00007
- ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018
- ★ Complex geometry and analysis. 90m:00034
- Lecture Notes in Physics** ★ PDEs and continuum models of phase transition. 90h:00019
- ★ Schrödinger operators. 90j:00024
- Les Houches** ★ Number theory and physics. 90m:00039
- Leuven** ★ Proceedings of the 3rd International Congress on Computational and Applied Mathematics. 90m:00042
- Liptovsky Ján** ★ Proceedings of the First Winter School on Measure Theory. 90a:00026
- Louvain-la-Neuve** ★ Proceedings of the Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme. 90h:00020
- Lyon** ★ XIX Всесоюзная Алгебраическая Конференция. Часть 1. (Russian) [XIX All-Union Algebra Conference. Part 1] (Not in MR)
- ★ XIX Всесоюзная Алгебраическая Конференция. Часть 2. (Russian) [XIX All-Union Algebra Conference. Part 2] (Not in MR)
- Madras** ★ Forty-Ninth Annual Conference of the Indian Mathematical Society. (Not in MR)
- Madrid** ★ Actas de la Reunión Matemática en Honor de A. Dou. (Spanish) [Proceedings of the Mathematical Meeting in Honor of A. Dou] 90m:00043
- Mar del Plata** ★ Nonlinear phenomena in complex systems. 90m:00038
- Mathematical methods in software design** ★ Mathematische Verfahrenstechnik. (German) [Mathematical methods in software design] 90h:00009
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- GAMM** ★ Proceedings of the Annual Scientific Meeting of the GAMM. 90a:00025
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- Montpellier** ★ Inverse problems: an interdisciplinary study. 90d:00040
- Moscow** ★ Теория вероятностей, теория случайных процессов и функциональный анализ. (Russian) [Probability theory, theory of random processes, and functional analysis] 90m:00040
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- Nice** ★ PDEs and continuum models of phase transition. 90h:00019
- Nonlinear analysis** ★ Analyse non linéaire. [Nonlinear analysis] 90h:00016
- Nonlinear evolutions** ★ Nonlinear evolutions. 90k:00029
- Nonlinear functional analysis** ★ Nonlinear functional analysis. 90f:00005
- Nonlinear numerical methods and rational approximation** ★ Nonlinear numerical methods and rational approximation. 90a:00023
- Nonlinear phenomena in complex systems** ★ Nonlinear phenomena in complex systems. 90m:00038
- Nonlinear semigroups, partial differential equations and attractors** ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- Nonlinear waves** ★ Nonlinear waves. 1. 90c:00006
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- Numerical mathematics and cybernetics** ★ Вычислительная математика и кибернетика. (Russian) [Numerical mathematics and cybernetics] (Not in MR)
- Oberwolfach** ★ General inequalities. 5. 90d:00039
- ★ Optimization in mathematical physics. 90h:00017
- Omsk** ★ Вычислительная математика и кибернетика. (Russian) [Numerical mathematics and cybernetics] (Not in MR)
- Opatija** ★ VI. Mathematikertreffen Zagreb-Graz. [VIth Zagreb-Graz Meeting of Mathematicians] 90h:00014
- Optimization, design of experiments and graph theory** ★ Optimization, design of experiments and graph theory. 90a:00024
- Optimization in mathematical physics** ★ Optimization in mathematical physics. 90h:00017
- Ordinary and partial differential equations** ★ Ordinary and partial differential equations. Vol. II. 90h:00018
- Paris** ★ Computing and computers for control systems. 90m:00037
- ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018
- PDEs and continuum models of phase transitions** ★ PDEs and continuum models of phase transition. 90h:00019
- Perpignan** ★ Analyse non linéaire. [Nonlinear analysis] 90h:00016
- Pisa** ★ Complex geometry and analysis. 90m:00034
- Positano** ★ Sequences. 90m:00047
- Prague** ★ Equadiff 7. 90j:00017a
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- Probability theory, theory of random processes, and functional analysis** ★ Теория вероятностей, теория случайных процессов и функциональный анализ. (Russian) [Probability theory, theory of random processes, and functional analysis] 90m:00040
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- Algebra Conference** ★ Proceedings of the Algebra Conference. 90j:00021
- Analysis Seminar** ★ Proceedings of the Third Analysis Seminar. 90j:00022
- Annual Scientific Meeting of the GAMM** ★ Proceedings of the Annual Scientific Meeting of the GAMM. 90a:00025
- Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme** ★ Proceedings of the Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme. 90h:00020
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- School on Measure Theory** ★ Proceedings of the First Winter School on Measure Theory. 90a:00026
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- ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векю. Том 3, вып. 2. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 2] 90k:00031b
- ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векю. Том 3, вып. 3. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 3] 90k:00031c
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- Rome** ★ Quantum probability and applications. IV. 90f:00007
- ★ Symbolic and algebraic computation. 90i:00005
- Saint Jean de Monts** ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] 90k:00030
- Sankt Wolfgang** ★ Inverse and ill-posed problems. 90f:00004
- Saratov** ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] 90d:00046
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- Partial Differential Equations and Continuum Models of Phase Transitions** ★ PDEs and continuum models of phase transition. 90h:00019
- Vekua Institute of Applied Mathematics** ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векю. Том 3, вып. 1. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 1] 90k:00031a
- ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векю. Том 3, вып. 2. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 2] 90k:00031b
- ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векю. Том 3, вып. 3. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 3] 90k:00031c
- Sequences** ★ Sequences. 90m:00047
- Session:**
- Department of Mathematics** ★ Proceedings of the Annual Scientific Session of the Department of Mathematics. (French) 90m:00044
- Nonlinear Functional Analysis** ★ Nonlinear functional analysis. 90f:00005
- Shanghai** ★ Proceedings of the International Conference on Nonlinear Mechanics. 90j:00023
- Shiraz** ★ Guzārish-i panzdahumī kunfrāns-i riyāzi-yi kishvar. [Report on the Fifteenth National Conference on Mathematics] 90m:00045
- ★ Proceedings of the Third Analysis Seminar. 90j:00022
- Sodankylä** ★ Function spaces, differential operators and nonlinear analysis. 90f:00020
- Solitons in physics, mathematics, and nonlinear optics** ★ Solitons in physics, mathematics, and nonlinear optics. 90m:00048
- Solution of superlarge problems in computational mechanics** ★ Solution of superlarge problems in computational mechanics. 90m:00049
- Sonderborg** ★ Schrödinger operators. 90j:00024
- Special Year:**
- Quantum Probability** ★ Quantum probability and applications. IV. 90f:00007
- Srni** ★ Proceedings of the Winter School on Geometry and Physics. 90d:00042
- ★ 17th Winter School on Abstract Analysis. 90m:00046
- Symbolic and algebraic computation** ★ Symbolic and algebraic computation. 90i:00005
- Symposium:**
- Bohr, Harald** ★ The Harald Bohr Centenary. 90h:00013
- Complex Geometry and Analysis** ★ Complex geometry and analysis. 90m:00034
- Fractals in Physics** ★ Фракталы в физике. (Russian) [Fractals in physics] 90j:00019
- Mathematics** ★ 2° Simposio Chileno de Matemática. I. (Spanish) [2nd Chilean Symposium on Mathematics. I] 90d:00044
- Mathematics and Computers** ★ Symposium on Mathematics and Computers. 90k:00032
- Mathematics and its Applications** ★ Proceedings of the Second Symposium of Mathematics and its Applications. 90d:00043
- Nonlinear Semigroups, Partial Differential Equations and Attractors** ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- Optimization, Design of Experiments and Graph Theory** ★ Optimization, design of experiments and graph theory. 90a:00024
- Orthogonal Polynomials and their Applications** ★ Second International Symposium (Segovia, 1986): "On Orthogonal Polynomials and their Applications". 90d:00045
- Solution of Superlarge Problems in Computational Mechanics** ★ Solution of superlarge problems in computational mechanics. 90m:00049
- Symbolic and Algebraic Computation** ★ Symbolic and algebraic computation. 90i:00005
- Systems Analysis and Simulation** ★ Systems analysis and simulation. I. 90j:00025a
- ★ Systems analysis and simulation. II. 90j:00025b
- Topological and Geometrical Methods in Field Theory** ★ Topological and geometrical methods in field theory. 90h:00021
- Systems analysis and simulation** ★ Systems analysis and simulation. I. 90j:00025a
- ★ Systems analysis and simulation. II. 90j:00025b
- Tajón** ★ Analysis and geometry 1989. 90m:00033
- Talca** ★ 2° Simposio Chileno de Matemática. I. (Spanish) [2nd Chilean Symposium on Mathematics. I] 90d:00044
- Tara** ★ VI Conference on Applied Mathematics. 90d:00037
- Tbilisi** ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векю. Том 3, вып. 1. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 1] 90k:00031a
- ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векю. Том 3, вып. 2. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 2] 90k:00031b
- ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векю. Том 3, вып. 3. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 3] 90k:00031c
- Theory and numerical methods for solving boundary value problems of differential equations** ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
- Theory of functions** ★ Теория функций. (Russian) [Theory of functions] (Not in MR)
- Theory of functions and approximations** ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] 90d:00046
- ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006
- Timisoara** ★ Proceedings of the Second Symposium of Mathematics and its Applications. 90d:00043
- Topological and geometrical methods in field theory** ★ Topological and geometrical methods in field theory. 90h:00021
- Transactions:**
- Conference on Applied Mathematics and Computing** ★ Transactions of the Sixth Army Conference on Applied Mathematics and Computing. 90a:00027
- ★ Transactions of the Seventh Army Conference on Applied Mathematics and Computing. 90m:00050
- Trento** ★ Volterra integrodifferential equations in Banach spaces and applications. 90d:00047
- Trieste** ★ Фракталы в физике. (Russian) [Fractals in physics] 90j:00019
- ★ Semigroup theory and applications. 90b:00010
- Vallabhidyanagar** ★ Fiftieth Conference of the Indian Mathematical Society. (Not in MR)
- Vence** ★ Fractals in physics. 90d:00038
- Versailles** ★ Proceedings of the Eighth International Conference on Computing Methods in Applied Sciences and Engineering. 90m:00041
- Vienna** ★ Proceedings of the Annual Scientific Meeting of the GAMM. 90a:00025
- Volterra integrodifferential equations in Banach spaces and applications** ★ Volterra integrodifferential equations in Banach spaces and applications. 90d:00047
- Vorau** ★ Control and estimation of distributed parameter systems. 90b:00012
- Washington, DC** ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- West Point, NY** ★ Transactions of the Seventh Army Conference on Applied Mathematics and Computing. 90m:00050
- Wilrijk** ★ Nonlinear numerical methods and rational approximation. 90a:00023
- Workshop:**
- Analysis and Geometry** ★ Analysis and geometry 1989. 90m:00033
- Functional Analysis and Optimization** ★ Workshop/Miniconference on Functional Analysis and Optimization. 90c:00012
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- Nonlinear Phenomena in Complex Systems** ★ Nonlinear phenomena in complex systems. 90m:00038
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Xanthi ★ Differential equations. 90f:00003

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- (Adnadjević, Dušan) see Symposium: Complex Analysis and Applications, 90j:30001
 (Agarwal, Ravi Prakash) see Numerical mathematics, 90i:65007
 (Albrecht, J.) see Numerical treatment of eigenvalue problems, 90i:65009
 (Anslander, L.) see Signal processing, 90j:94005
 (Bandt, Christoph) see Proceedings: Conference, Topology and Measure, 90g:28001
 (Bellin, A.) see Numerical methods for ordinary differential equations, 90d:65007
 (Bénilan, Philippe) see Recent advances in nonlinear elliptic and parabolic problems, 90i:35003
 (Berkson, Earl) see Analysis at Urbana, 90d:46002 and 90d:46003
 (Borne, P.) see Modelling and simulation of systems, 90m:93003
 (Brass, H.) see Numerical integration, 90i:65003
 (Bredveid, P.) see Modelling and simulation of systems, 90m:93003
 (Byrnes, Christopher I.) see Linear circuits, systems and signal processing: theory and application, 90k:93007
 (Caillerie, Denis) see Theoretical and applied mechanics, 90h:73004
 (Carasso, C.) see Nonlinear hyperbolic problems, 90h:35004
 (Charrier, P.) see Nonlinear hyperbolic problems, 90h:35004
 (Chen, Shing Shen) see Partial differential equations, 90h:35005
 (Chipot, M.) see Recent advances in nonlinear elliptic and parabolic problems, 90i:35003
 (Chow, Y. M.) see Numerical mathematics, 90i:65007
 (Colella, David) see Commutative harmonic analysis, 90a:43001
 (Collatz, L.) see Numerical methods of approximation theory, 90f:65003 and Numerical treatment of eigenvalue problems, 90i:65009
 (Dauphin-Tanguy, G.) see Modelling and simulation of systems, 90m:93003
 (Davenport, J. H.) see EUROCAL '87, 90i:68007
 (Diener, Marc) see Proceedings: School on Nonstandard Analysis and Representation of the Real, 90j:03116
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 (Edgar, G. A.) see Almost everywhere convergence, 90i:28002
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 (Ehrenpreis, Leon) see Theta functions—Bowdoin 1987, 90d:11004 and 90d:11005
 (Evans, L. C.) see Recent advances in nonlinear elliptic and parabolic problems, 90i:35003
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 (Fossum, R.) see Invariant theory, 90a:14002
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 (Gunning, R. C.) see Theta functions—Bowdoin 1987, 90d:11004 and 90d:11005
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 (Hämmerlin, G.) see Numerical integration, 90i:65003
 (Hanouzet, B.) see Nonlinear hyperbolic problems, 90h:35004
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 (Hochster, M.) see Invariant theory, 90a:14002
 (Hoffman, Frederick) see Proceedings: Conference on Combinatorics, Graph Theory, and Computing, 90j:05003
 (Hussaini, M. Y.) see Spectral multi-domain methods, 90j:65008
 (Ivanov, Kamen G.) see Constructive theory of functions, 90a:41001
 (Jardine, J. F.) see Algebraic K-theory: connections with geometry and topology, 90m:18001
 (Jiang, Bo Ju) see Topological fixed point theory and applications, 90i:55001
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 (Lakshmihai, V.) see Invariant theory, 90a:14002
 (Lazarov, Raicho D.) see Numerical methods and applications, 90j:65008
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 (Lloyd, E. K.) see Conference: Combinatorial Optimization, 90j:90077
 (Lohr, C.) see Proceedings: School on Nonstandard Analysis and Representation of the Real, 90j:03116
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 (Meinardus, Günter) see Numerical methods of approximation theory, 90f:65003
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 (Mullin, R. C.) see Proceedings: Conference on Combinatorics, Graph Theory, and Computing, 90j:05003
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 (Peck, T.) see Analysis at Urbana, 90d:46002 and 90d:46003
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 (Saeks, Richard E.) see Linear circuits, systems and signal processing: theory and application, 90k:93007
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 (Shortt, Rae Michael) see Measure and measurable dynamics, 90d:28001
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 (Smith, Victor) see Algebraic K-theory: connections with geometry and topology, 90m:18001
 (Stanton, Ralph G.) see Proceedings: Conference on Combinatorics, Graph Theory, and Computing, 90j:05003
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 (Sucheston, L.) see Almost everywhere convergence, 90i:28002
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 (Uhl, J. Jerry, Jr.) see Analysis at Urbana, 90d:46002 and 90d:46003
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 (Vineasa Tejedor, Jaime) see Orthogonal polynomials and their applications, 90a:42001
 (Williams, H. Paul) see Conference: Combinatorial Optimization, 90j:90077
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 — ★ Analysis at Urbana. Vol. II. 90d:46003
Benin City ★ Computational mathematics. II. 90j:65004
Binz ★ Proceedings of the Conference: Topology and Measure. V. 90g:28001
Birthday: Haken, Hermann ★ Dynamic patterns in complex systems. 90j:92001
Blaschewitz ★ Theory and practice of geometric modeling. 90j:65009
Boca Raton, FL ★ Proceedings of the Twentieth Southeastern Conference on Combinatorics, Graph Theory, and Computing. 90j:05003
Bordeaux ★ Nonlinear hyperbolic problems. 90h:35004
Boulder, CO ★ Graphs and algorithms. 90a:05003
Brunswick, ME ★ Theta functions—Bowdoin 1987. Part 1. 90d:11004
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Canton, NY ★ Commutative harmonic analysis. 90a:43001
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Workshop on the Philosophy and Methodological Problems of Mathematics ★ Determinanten der Mathematikentwicklung—erkenntnistheoretische, wissenschaftstheoretische und historische Aspekte. (German) [Determinants of mathematical development—epistemological, science-theoretical and historical aspects] 90k:00046
Columbus, OH ★ Almost everywhere convergence. 90i:28002
Commutative harmonic analysis ★ Commutative harmonic analysis. 90a:43001
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Numerical Mathematics ★ Numerical mathematics, Singapore 1988. 90i:65007
Numerical Methods and Applications ★ Numerical methods and applications. 90i:65008
Quadratic Forms and Real Algebraic Geometry ★ Quadratic forms and real algebraic geometry. 90j:14028
Recent Advances in Nonlinear Elliptic and Parabolic Problems ★ Recent advances in nonlinear elliptic and parabolic problems. 90i:35003
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Constructive theory of functions ★ Constructive theory of functions. 90a:41001

Contemporary Mathematics ★ Graphs and algorithms. 90a:05003

— ★ Invariant theory. 90a:14002

— ★ Singularities. 90a:32002

— ★ Commutative harmonic analysis. 90a:43001

— ★ Measure and measurable dynamics. 90d:28001

Corvallis, OR ★ Quadratic forms and real algebraic geometry. 90j:14028

Denton, TX ★ Invariant theory. 90a:14002

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Grenoble ★ Theoretical and applied mechanics. 90h:73004

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— ★ Numerische Mathematik und ihre Anwendungen. (German) [Numerical mathematics and its applications] 90m:65009

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Orthogonal polynomials and their applications ★ Orthogonal polynomials and their applications. 90a:42001

Ottawa, ON ★ Algorithms and order. 90j:06002

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Partial differential equations ★ Partial differential equations. 90h:35005

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Conference on Combinatorics, Graph Theory, and Computing ★ Proceedings of the Twentieth Southeastern Conference on Combinatorics, Graph Theory, and Computing. 90j:05003

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Proceedings of Symposia in Pure Mathematics ★ Theta functions—Bowdoin 1987. Part 1. 90d:11004

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Quadratic forms and real algebraic geometry ★ Quadratic forms and real algebraic geometry. 90j:14028

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— ★ Theta functions—Bowdoin 1987. Part 2. 90d:11005

Rochester, NY ★ Measure and measurable dynamics. 90d:28001

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Spectral Multi-Domain Methods ★ Spectral multi-domain methods. 90j:65008

Signal processing ★ Signal processing. Part I. 90j:94005

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Singapore ★ Numerical mathematics, Singapore 1988. 90i:65007

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Modern Analysis ★ Analysis at Urbana. Vol. I. 90d:46002

— ★ Analysis at Urbana. Vol. II. 90d:46003

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Workshop:

- Mathematical Models for Phase Change Problems** ★ Mathematical models for phase change problems. 90b:00012
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00A12 Translation volumes, reprintings, etc. [see also 01A75]

- (Gamkrelidze, R. V.) see Analysis, 90j:00027
 (McFadden, H. H.) see Temlyakov, V. N., 90c:00007
 (Newton, Dan) see Analysis, 90j:00027
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 — ★ American Mathematical Society Translations. Series 2. Vol. 144. 90b:00022
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 — ★ Investigations in applied mathematics. No. 8. 90a:00029
 — ★ Investigations in applied mathematics. No. 13. 90d:00050
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 — ★ Selected translations. 90d:00052
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00A15 General bibliographies

- Anderson, Nancy D. ★ French mathematical seminars. 90k:00034
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- Abashkina, N. F. see Belkina, Z. V.; et al., 90k:00040a and 90k:00040b
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Bürger, Bernd see Bürger, Marina; et al., 90m:00051
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 Abramowich, John Syntactic methods for recursive equations and applications to differential equations. 90h:00025
 (Aharony, Amnon) see Fractals in physics, 90d:00038
 Ames, W. F. Analysis of mathematical models for pollutant transport and dissipation. 90k:92058
 Antoshkina, G. I. see Panchenkov, A. N.; et al., 90c:76001
 (Aristotle) see Casti, John L., 90i:92004
 Arlinghaus, Sandra Lach ★ Essays on mathematical geography. 90i:92002
 — ★ Essays on mathematical geography. II. 90i:92003
 Atiyah, Michael The impact of physics on geometry. 90d:00055
 Avramenko, L. G. (with Borydug, B. A.; Larin, V. B.) Compensation for the dynamic errors of measuring devices. (Russian) 90a:65125
 (Ball, Robin) see Fractals in the natural sciences, 90m:00020
 Barreau, Hervé Temps physique et durée biologique: la flèche du temps et l'évolution. (Physical time and biological duration: the arrow of time and evolution) 90k:92001

Barrett, A. N. (with Mackay, A. L.) ★ Spatial structure and the microcomputer. 90h:68096
 Beida, A. A. see Bolsum, A. I.; et al., 90d:00001
 Belitskii, G. R. (with Lyubich, Yu. I.) ★ Matrix norms and their applications. 90g:15003
 (Benilan, Philippe) see Dautray, Robert, 90k:00004
 Berestetskii, V. B. (with Lifshits, E. M.; Pitaevskii, L. P.) ★ Lehrbuch der theoretischen Physik ("Landau-Lifschitz"). Band IV. (German) [Textbook of theoretical physics ("Landau-Lifschitz"). Volume IV] 90b:00001
 — (with Lifshits, E. M.; Pitaevskii, L. P.) ★ Physique théorique ("Landau-Lifschitz"). Tome 4. (French) [Theoretical physics ("Landau-Lifschitz"). Vol. 4] 90m:00002
 Berezin, A. V. (with Kurochkin, Yu. A.; Tolkachev, E. A.) ★ Кватернионы в релятивистской физике. (Russian) [Quaternions in relativistic physics] 90h:81001
 Berkowitz, Gary C. (with Greenberg, David R.; White, Charles A.) An approach to a mathematics of phenomena: canonical aspects of reentrant form eigenbehavior in the extended calculus of indications. 90f:92001
 Bigelow, John (with Pargetter, Robert) Vectors and change. 90m:00053
 Bolsum, A. I. (with Gronskii, V. K.; Beida, A. A.) ★ Методы математической физики. (Russian) [Methods in mathematical physics] 90d:00001
 Borydug, B. A. see Avramenko, L. G.; et al., 90a:65125
 Boryuk, M. N. see Panchenkov, A. N.; et al., 90c:76001
 Boulanger, Albert see Feurzeig, Wallace; et al., 90d:00036
 (Brebis, C. A.) see Boundary element reference book, 90a:65002
 Burgin, M. S. (with Kuznetsov, V. I.) Regularities in the structure of scientific theories. (Russian) 90c:03009
 Busch-Vishniac, J. J. see Paynter, H. M., 90c:94050a; 90c:94050b and 90c:94050c
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 Churchhouse, R. F. Presidential address: mathematics and computers. 90d:11140
 Cordill, J.-M. (with Porter, Timothy) ★ Shape theory. 90f:54030
 Dautray, Robert (with Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 7. (French) [Mathematical analysis and computing for science and technology. Vol. 7] 90m:00006a
 — (with Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 8. (French) [Mathematical analysis and computing for science and technology. Vol. 8] 90m:00006b
 — (with Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 9. (French) [Mathematical analysis and computing for science and technology. Vol. 9] 90m:00006c
 — (with Lions, Jacques-Louis) ★ Mathematical analysis and numerical methods for science and technology. Vol. 1. 90k:00004
 Deheueels, René Mathématiques et théories physiques. [Mathematics and physical theories] 90i:00012
 Deribas, A. A. The logic of medical diagnoses. (Russian) 90c:03012
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 Earman, John ★ World enough and space-time. 90k:83001
 (Efimov, Oleg) see Yablonskii, S. V., 90c:00012
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 (Engelbrecht, Jüri) see Nonlinear waves, 90c:00006
 (Feder, Jens) see Fractals in physics, 90d:00038
 Feurzeig, Wallace (with Horwitz, Paul; Boulanger, Albert) Advanced mathematics from an elementary viewpoint: chaos, fractal geometry, and nonlinear systems. (see 90d:00036)
 (Fleischmann, M.) see Fractals in the natural sciences, 90m:00020
 Frémond, M. Yield theory in physics. 90b:73001
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 (Gaponov-Grekhor, A. V.) see Nonlinear waves, 90c:00006
 (Gervat, André) see Dautray, Robert, 90k:00004
 (Glowinski, R.) see Proceedings: Conference on Computing Methods in Applied Sciences and Engineering, 90m:00041
 Greenberg, David R. see Berkowitz, Gary C.; et al., 90f:92001
 Gronskii, V. K. see Bolsum, A. I.; et al., 90d:00001
 Großmann, Siegfried Selbstähnlichkeit: das Strukturgesetz im und vor dem Chaos. [Self-similarity: the law of structure in and prior to chaos] (see 90g:92003)
 Gubanov, V. A. (with Zakharov, V. V.; Kovalenko, A. N.) ★ Введение в системный анализ. (Russian) [Introduction to systems analysis] 90c:93003
 Haake, A. The role of symmetry in Javanese batik patterns. 90d:92037
 Hadžić, Olga ★ Numeričke i statističke metode u obradi eksperimentalnih podataka. I. (Serbo-Croatian) [Numerical and statistical methods in processing experimental data. I] 90k:00006a
 Haken, H. Synergetics: an approach to self-organization. (see 90h:92003)
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 Harris, Christopher J. (with Valenza, J. M. E.) ★ Устойчивость динамических систем с обратной связью. (Russian) [The stability of feedback dynamical systems] 90g:93070
 (von Helmholtz, Hermann) see Hermann, Robert, 90h:58001
 Herceg, Dragoslav ★ Numeričke i statističke metode u obradi eksperimentalnih podataka. II. (Serbo-Croatian) [Numerical and statistical methods in processing experimental data. II] 90k:00006b
 Hermann, Robert ★ Topics in physical geometry. 90h:58001
 Hildebrandt, Stefan (with Tromba, Anthony) ★ Panoptimum. (German) 90k:00007
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- (Jacob, Andrei) see Belitskii, G. R., 90g:15003
 (Jovanović, Boško S.) see Conference: Applied Mathematics, 90d:00037
 Kaiser, Walter Analogien in Physik und Technik im 19. und 20. Jahrhundert. (English summary) [Analogues in physics and technology in the 19th and 20th centuries] 90f:01029
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 — ★ Fascinating world of mathematical sciences. Vol. II. 90m:00008b
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 Katzenelson, Jacob see Abelson, Harold; et al., 90e:58003
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 Kechman, V. ★ State-space models of lumped and distributed systems. 90a:93003
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 Kulakov, A. V. (with Rumyantsev, A. A.) ★ Введение в физику нелинейных процессов. (Russian) [Introduction to the physics of nonlinear processes] 90c:35181
 Kulakov, A. V. A new formulation of the theory of physical structures. (Russian) 90f:03020
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 Mackay, A. L. see Barrett, A. N., 90b:68096
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 Malinzer, Klaus Symmetrie und Symmetriebrechung. Zur Einheit und Vielheit in den modernen Naturwissenschaften. (English summary) [Symmetry and symmetry breaking. On unity and diversity in modern natural sciences] 90a:00031
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 Manevich, L. I. (with Mikhlin, Yu. V.; Pilipchuk, V. N.) ★ Метод нормальных колебаний для существенно нелинейных систем. (Russian) [The method of normal oscillations for essentially nonlinear systems] 90b:34003
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 Meyer, Heiner Zur Geschichte der Wechselwirkungen von Mathematik und dynamischen Systemen. [On the history of interactions of mathematics and dynamical systems] (see 90k:00046)
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 Mook, Delo E. (with Vargish, Thomas) ★ Inside relativity. 90f:83001
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 Panchenkov, A. N. (with Orlov, Yu. F.; Shlaustas, R. Yu.; Antoshkina, G. I.; Borisyuk, M. N.) ★ Математическая технология пакета прикладных программ "Полет". (Russian) [Mathematical technology of the applied programming package "Pole"] 90c:76001
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 (Pearce, C. E. M.) see Vaughan, Rodney, 90f:90056
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 (Pietronero, Luciano) see Fractals in physics, 90j:00019
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 Porter, Timothy see Cordier, J.-M., 90f:54030
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 (Quandt, Juergen) see Zeidler, Eberhard, 90b:00004
 (Rabinovich, M. I.) see Nonlinear waves, 90c:00006
 Rampazzo, Franco Unified versions, based on distributions, of the linearized equations for an elastic string carrying a concentrated mass. (Italian summary) 90g:35088
 Rosen, Joe Symmetry at the foundations of science. (see 90a:00018)
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 (Sinaï, Ya. G.) see Fractals in physics, 90j:00019
 (Sneddon, Ian N.) see Dastray, Robert, 90k:00004
 Suris, K. ★ Numeričke i statističke metode u obradi eksperimentalnih podataka. III. (Serbo-Croatian) [Numerical and statistical methods in processing experimental data. III] 90k:00006c
 Sussman, Gerald J. see Abelson, Harold; et al., 90e:58003
 Sveshnikov, A. G. (with Tikhonravov, A. V.) Mathematical methods in problems of analysis and synthesis of layered media. (Russian) 90m:78017
 Taff, L. G. New principle of statistical estimation. 90f:70018
 (Teillac, Jean) see Dastray, Robert, 90k:00004
 Thagard, Paul ★ Computational philosophy of science. 90a:00033
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 (Tosatti, Erio) see Fractals in physics, 90j:00019
 Tromba, Anthony see Hildebrandt, Stefan, 90k:00007
 Tschupik, Josef P. Applied descriptive geometry: sunlight problems in architecture. 90g:51041
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 Vaughan, Rodney ★ Urban spatial traffic patterns. 90f:90056
 Vladimirov, Yu. S. Bispinors and a physical structure of rank (3, 3). (Russian) 90h:81017
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 White, Charles A. see Berkowitz, Gary C.; et al., 90j:92001
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 Yablonskii, S. V. ★ Introduction to discrete mathematics. 90k:00012
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 Zeidler, Eberhard ★ Partial differential equations of applied mathematics. 90k:35004
 Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. 90b:00004
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 Birthday:
 Mandelbrot, Benoit B. ★ Fractals in physics. 90d:00038
 Boundary element reference book ★ The boundary element reference book. 90a:65002
 Conference:
 Applied Mathematics ★ VI Conference on Applied Mathematics. 90d:90037
 Computing Methods in Applied Sciences and Engineering ★ Proceedings of the Eighth International Conference on Computing Methods in Applied Sciences and Engineering. 90m:00041
 Fractals in Physics ★ Fractals in physics. 90d:00038
 Fractals in physics ★ Фракталы в физике. (Russian) [Fractals in physics] 90j:00019
 — ★ Fractals in physics. 90d:00038
 Fractals in the natural sciences ★ Fractals in the natural sciences. 90m:00020
 Handbook:
 Boundary elements ★ The boundary element reference book. 90a:65002
 Inverse problems: an interdisciplinary study ★ Inverse problems: an interdisciplinary study. 90d:00040
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 GAMM ★ Proceedings of the Annual Scientific Meeting of the GAMM. 90a:00025
 Inverse Problems: an Interdisciplinary Study ★ Inverse problems: an interdisciplinary study. 90d:00040

- Montpellier ★ Inverse problems: an interdisciplinary study. 90d:00040
 Nonlinear waves ★ Nonlinear waves. I. 90c:00006
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 Open systems ★ Offense Systeme. I. (German) [Open systems. I] 90a:01066
 Proceedings:
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 Special Issue:
 Advances in mathematical morphology ★ Advances in mathematical morphology. (Not in MR)
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 Fractals in Physics ★ Фракталы в физике. (Russian) [Fractals in physics] 90j:00019
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 Venice ★ Fractals in physics. 90d:00038
 Versailles ★ Proceedings of the Eighth International Conference on Computing Methods in Applied Sciences and Engineering. 90m:00041
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00A71 Theory of mathematical modeling

- Cong, Cai Ying A preliminary discussion on mathematization and mathematical models. (Chinese) 90d:00061
 (Kim, Myung-Hwan) see Algebra and topology, 90f:00009
 (Ko, K. H.) see Algebra and topology, 90f:00009
 Nour Eldin, H. A. see Steller, R., (90m:93003)
 Pester, A. Mathematik—mathematische Modellierung—Sprache. [Mathematics—mathematical modelling—language] (see 90i:00046)
 Pivovarov, V. G. Mathematical models in natural science. (Russian) (see 90d:00023)
 Pratt, M. J. Representation and communication in geometric modelling. 90k:00050
 Pyrev, Yu. P. Reliability of the interpretation of an experiment based on an approximate model. (Russian) 90m:00061
 Rabitz, Herschel Simplifying features of strongly coupled dynamical systems: scaling and self similarity relations through sensitivity analysis. (see 90d:65009)
 Steller, R. (with Nour Eldin, H. A.) Application of singular perturbation for modelling and model reduction in engineering problems. (see 90m:93003)

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 Taojin ★ Algebra and topology 1988. 90f:00009
 Wurkabet:
 Algebra and Topology ★ Algebra and topology 1988. 90f:00009

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- Arlinghaus, Sandra Lach ★ Essays on mathematical geography. 90i:92002
 — ★ Essays on mathematical geography. II. 90i:92003
 Arsenin, V. Ya. (with Timonov, A. A.) Some aspects of mathematical modeling of x-ray computer tomographs. (Russian) 90i:92005
 Bohl, Erich ★ Mathematische Grundlagen für die Modellierung biologischer Vorgänge. (German) [Mathematical foundations for the modeling of biological processes] 90k:92002
 Brunner, V. see Mazzola, G.; et al., 90e:92104
 Bryushlinskii, V. N. ★ Логика, мышление, информация. (Russian) [Logic, thought, information] 90c:03002
 Casti, John L. ★ Alternate realities. 90a:92002
 Chen, Lan Sun see Li, Ji Bin, 90b:92002
 Conrad, Michael Physics and biology: towards a unified model.
 Dahan Dalmedico, Amy La notion de pression: de la métaphysique aux diverses mathématisations. Causalité et statut des hypothèses. (English summary) [The notion of pressure: from metaphysics to the various mathematical formulations. Causality and status of the hypotheses] 90m:01020
 Danilov, V. G. see Maslov, V. P.; et al., 90j:76093
 Delaney, William (with Vaccari, Erminia) ★ Dynamic models and discrete event simulation. 90j:93001
 Dewynne, J. (with Ockendon, J. R.; Wilmott, P.) On a mathematical model for fiber tapering. 90e:35107
 Dyshin, O. A. Asymptotic properties of noise-immunity for criteria of model accuracy. 90m:93073
 Edelstein-Keshet, Leah (with Ermentrout, George Bard) Models for branching networks in two dimensions. 90m:92017
 Eisen, Martin ★ Mathematical methods and models in the biological sciences. 90g:92002
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 Fowler, A. C. Secondary frost heave in freezing soils. 90k:86005
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 Gaer, L. V. Constructing an adequate model in evolutionary modeling. 90e:92053
 Greenspan, Donald Modelling with arithmetic. 90k:00047
 Gubanov, V. A. (with Zakharov, V. V.; Kovalenko, A. N.) ★ Введение в системный анализ. (Russian) [Introduction to systems analysis] 90c:93003
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- (Kreikenbohm, R.) see Bohl, Erich, 90k:92002
 Li, Ji Bin (with Chen, Lan Sun) ★ Shengming yu shuxue. (Chinese) [Life and mathematics] 90b:92002
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- Beijing ★ Third Asian Conference on Mathematical Logic. 90h:03004
- Birthday:
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- Chicago, IL ★ Classification theory. 90h:03003
- Classification theory ★ Classification theory. 90h:03003
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- ★ Logic Colloquium '88. 90d:03005
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- Model Theory ★ Proceedings of the 7th Easter Conference on Model Theory. 90j:03004
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- Moscow ★ Logic, methodology and philosophy of science. VIII. 90i:03001
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- Tallin ★ Применение методов математической логики. (Russian) [Application of the methods of mathematical logic] 90c:03001
- Temporal logics and their applications ★ Temporal logics and their applications. 90e:03003
- Toronto, ON ★ Set theory and its applications. 90h:03006
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- Wendisch-Rietz ★ Proceedings of the 7th Easter Conference on Model Theory. 90j:03004
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- (Ansello, G.) see Automata, languages and programming. 90m:68001
- (de Bakker, J. W.) see Linear time, branching time and partial order in logics and models for concurrency. 90i:68009
- (Boreux, F.) see Proceedings: Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme. 90h:00020
- (Börger, Egon) see CSL '88. 90i:68005
- (Bowen, Kenneth A.) see Logic programming. 90j:68004
- (Brachman, Ronald J.) see Proceedings: Conference on Principles of Knowledge Representation and Reasoning. 90h:68002
- (Dezani-Ciancaglini, M.) see Automata, languages and programming. 90m:68001
- (Diener, Marc) see Proceedings: School on Nonstandard Analysis and Representation of the Real. 90j:03116
- (Dubois, Didier) see Mathematical modelling. 90h:03046
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- (Jantke, K. P.) see Analogical and inductive inference. 90h:68004
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- (Kowalski, Robert A.) see Logic programming. 90j:68004
- (Krecmar, A.) see Mathematical foundations of computer science. 90m:68009
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- (Leibniz, Gottfried Wilhelm) see Leibniz's logic. 90m:03006
- (Lepistö, Timo) see Automata, languages and programming. 90i:68004
- (Levesque, Hector J.) see Proceedings: Conference on Principles of Knowledge Representation and Reasoning. 90h:68002
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- (Meyer, A. R.) see Logic at Botik '89. 90k:68007
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- (Mugnai, Massimo) see Leibniz's logic. 90m:03006
- (Panor, M. L.) see Methodological analysis of the foundations of mathematics. 90i:00002
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- (de Roover, W. P.) see Linear time, branching time and partial order in logics and models for concurrency. 90i:68009
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- Spade, Paul Vincent ★ Lies, language and logic in the late Middle Ages. 90k:03001
- (Taitlin, M. A.) see Logic at Botik '89. 90k:68007

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- Barabashov, A. G. Two possible programs for constructing mathematics. (Russian) 90i:03002
- Barricelli, Nils Aall Correspondence between Shimon Edelman and Nils Aall Barricelli concerning the paper *Challenge to Gödel's proof* [Blindern Theoret. Res. Team, Oslo, 1983; MR 86f:03008]. 90m:03022a
- Belyakin, N. V. (with Samokhvalov, K. F.) The logic of opinions and rituals. (Russian) (see 90d:00024)
- Bernstein, Mark Fatalism, tense, and changing the past. (Not in MR)
- Bessonov, A. V. (with Petrov, V. V.) Meinong's theory of objects and the foundations of contemporary logic. (Russian) (see 90i:00002)
- Blachowicz, James Discovery and ampliative inference. (Not in MR)
- Blum, Alex A version of the Frege-Quine argument. 90e:03004
- Boghossian, Paul A. The rule-following considerations. (Not in MR)
- (Bolzano, B.) see Simons, Peter, 90c:03006
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- Clavelli, M. Free-construction principles in the De Giorgi-Forti frame-theory of the foundations of mathematics. (Italian. English summary) 90d:03010
- (with De Giorgi, E.; Forti, M.; Tortorelli, V. M.) A self-reference oriented theory for the foundations of mathematics. 90f:03005
- Cocchiarella, Nino B. Predication versus membership in the distinction between logic as language and logic as calculus. 90c:03003
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- David, Marlan A. Truth, eliminativism, and disquotationalism. (Not in MR)
- De Giorgi, E. see Clavelli, M.; et al., 90f:03005
- (Derrida, Jacques) see Kurthen, Martin, (Not in MR)
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- Garciadiego, Alejandro R. Bertrand Russell and the origin of paradoxes in set theory. (Spanish) (see 90m:00024)
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- Kakuda, Yuzuru Set theory extracted from Cantor's theological ontology. 90d:03012
- Kirillov, A. A. Commentaries on S. Mac Lane's article "Mathematical logic is neither foundation nor philosophy" [Philos. Math. (2) 1 (1986), no. 1-2, 3-14; MR 87j:03008]. (Russian) (see 90i:00002)
- Koons, Robert Charles Doxastic paradoxes without self-reference. (see 90d:03009)
- Kroos, Frederick Circles and fixed points in description theories of reference. 90c:03004
- Kurthen, Martin Indeterminiertheit, Iterabilität und Intentionalität. Searle, Quine und Derrida zur Einheit der Bedeutung. (English summary) [Indeterminacy, iterability and intentionality. Searle, Quine and Derrida on the unity of meaning] (Not in MR)
- Leftow, Brian A Leibnizian cosmological argument. (Not in MR)
- (Leibniz, Gottfried Wilhelm) see Leftow, Brian, (Not in MR)
- Lowe, E. J. What is a criterion of identity? 90f:03006
- Mackenzie, Jim Reasoning and logic. (Not in MR)
- (Mac Lane, Saunders) see Kirillov, A. A., (90i:00002)
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- Mangione, Corrado Foundations of mathematics and philosophy (of mathematics). (Italian) (see 90f:03003)
- Mar, Gary see Grim, Patrick, (Not in MR)
- Martino, Enrico Classical and intuitionistic semantic validity. (Italian) (see 90f:03003)
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- (Meinong, A.) see Bessonov, A. V., (90i:00002)
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- Ruiz Zúñiga, Ángel Russell and the problems of logicism. (Spanish) (see 90m:00024)
- (Russell, Bertrand) see Rodríguez Consuegra, Francisco, (90m:00024); Ruiz Zúñiga, Ángel, (90m:00024) and Garciadiego, Alejandro R., (90m:00024)
- Ruzavin, G. I. Hilbert's program and the formalistic philosophy of mathematics. (Russian) 90j:03008
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- Sagal, Paul Reflexive consistency proofs and Gödel's second theorem. 90i:03007
- Samokhvalov, K. F. An experimental procedure for establishing the dependence of the degree to which a proof is convincing on its length. (Russian) 90f:03008
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- (Searle, John R.) see Kurthen, Martin, (Not in MR)
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- Determinacy of abstract objects: the Platonist's dilemma. (Not in MR)
- Sinaceur, Hourya Benis Ars inveniendi et théorie des modèles. [Ars inveniendi and model theory] 90g:03008
- Sinnott-Armstrong, Walter (with Moor, James; Fogelin, Robert) A defence of *modus tollens*. (Not in MR)
- Stenlund, Sören On the concept of language in some recent theories of meaning. 90f:03009
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- Woleński, Jan Brentano's criticism of the correspondence conception of truth and Tarski's semantic theory. (Not in MR)
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- Barbour, Julian B. Maximal variety as a new fundamental principle of dynamics. 90j:81015
- Barwise, K. Jon ★ The situation in logic. 90g:03033
- Bachanov, V. A. ★ Николай Александрович Васильев. 1880-1940. (Russian) [Nikolai Aleksandrovich Vasil'ev. 1880-1940] 90d:01049
- Berg, Jan Bolzano and situation semantics: variations on a theme of variation. 90c:01021
- see also Bolzano, B., 90f:01060
- Blais, Michel J. A pragmatic analysis of mathematical realism and intuitionism. 90g:00009
- Bogdanovich, V. I. The interaction of the mathematical sciences as a factor in their development. (Russian) 90j:00030
- Bolzano, B. ★ Bernard Bolzano—Gesamtausgabe. Reihe I. Schriften. Band 12. Teil 3. (German) [Bernard Bolzano—collected works. Series I. Writings. Vol. 12. Part 3] 90f:01060
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- Suchenek, Marek A. Forcing versus closed world assumption. 90d:68067
- Sviridenko, D. I. An extension of the language of Σ^* -programs. (Russian) 90g:68087
- *see also* Goncharov, S. S., 90f:68107
- Synek, Dan *see* Petersson, Kent, 90m:68092
- Szalas, Andr  j A complete axiomatic characterization of first-order temporal logic of linear time. 90h:03015
- Towards the temporal approach to abstract data types. 90k:68115
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- Talcott, Carolyn *see* Mason, Ian, (90m:68001)
- Tang, Tong Gao Logical formulation of denotational semantics. (Chinese. English summary) (Not in MR)
- Tarlecki, Andr  j *see* Konikowska, Beata; et al., 90b:68065 and Harper, Robert; et al., (90m:68002)
- Taylor, Paul *see* Girard, Jean-Yves; et al., 90g:03013
- Tennenbaum, L. A. Relational decomposition and structural analysis of systems. 90h:68037
- Thattai, Satish R. Implementing first-order rewriting with constructor systems. 90i:68061
- Thiagarajan, P. S. *see* Lodaya, K.; et al., (90i:68009)
- Thomason, Richmond H. (with Horty, John F.; Tountzky, David S.) A calculus for inheritance in monotonic semantic nets. (see 90a:68005)
- Tiuryn, Jerzy (with Urzyczyn, Pawel) Some relationships between logics of programs and complexity theory. 90a:68032
- Torres F., Alberto (with Ar  oz, Juli  n) Combinatorial models for searching in knowledge bases. (Spanish summary) 90k:68162
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- Wagner, Hubert On the emptiness problem of tree automata and completeness of modal logics of programs. 90j:03072
- Wallace, Mark George A computable semantics for general logic programs. 90h:68078
- Wasilewska, Anita On correctness of decision algorithms in information systems. 90g:68129
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- Yamada, Shinichi A mathematical theory of randomized computation. I. 90d:68035a
- A mathematical theory of randomized computation. II. 90d:68035b
- A mathematical theory of randomized computation. III. 90d:68035c
- Yang, Rong *★* P-Prolog—a parallel logic programming language. 90a:68074

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Méndez, José M. Converse Ackermann property and semiclassical negation. 90g:03035

Rautenberg, Wolfgang Axiomatization of semigroup consequences. 90m:03057

— The common rules of binary connectives are finitely based. (Not in MR)

Szymanski, Krzysztof On information functions. I. Basic formal properties. 90c:0304a

— On information functions. II. Applications to the logic of theory change. 90c:0304b

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Szymanski, Krzysztof Classical subtheories and intuitionism. 90j:03017

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Shelah, Saharon ★ Around classification theory of models. 90a:03037

03C05 Equational classes, universal algebra [see also 08Axx]

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Craig, William Logical partial functions and extensions of equational logic. 90i:03034

— Near-equational and equational systems of logic for partial functions. I. 90m:03058

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tional theories, unification, and (un)decidability. 90j:03022

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— Generators, indecomposables and free algebras. 90c:08009

— (with McKenzie, R. N.; Weaver, G. E.) Two definability results in the equational context. 90i:08007

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— Enumerating outer narrowing derivations for constructor-based term rewriting systems. 90d:68046

03C07 Basic properties of first-order languages and structures.

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Dzierzowski, Daniel Many-sorted elementary equivalence. 90b:03042

Krynicky, Michał The nondefinability of notation and first order logic. 90f:03063

Osherson, Daniel N. (with Weinstein, Scott) Identifiable collections of countable structures. 90b:03043

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Mycielski, Jan (with Pudlák, Pavel; Stern, Alan S.) A lattice of chapters of mathematics

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03C10 Quantifier elimination and related topics

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Koepeke, Peter On the elimination of Malitz quantifiers over Archimedean real closed fields. 90c:03029

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elementary algebra and geometry. 90a:03010

— (with Collins, George E.; McCallum, Scott) An adjacency algorithm for cylindrical

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- Compton, Kevin J. The computational complexity of asymptotic problems. I. Partial orders. 90d:03073
- Goldfarb, Warren Random models and the Maslov class. 90f:03017
- Idziak, Paweł M. The decision problem for finite algebras from arithmetical varieties with equationally definable principal congruences. 90b:08013
- Thiery, Jerzy (with Urzyczyn, Paweł) Some relationships between logics of programs and complexity theory. 90a:68032
- Urzyczyn, Paweł see Thiery, Jerzy, 90a:68032

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- Mayer, Laura L. Vaught's conjecture for ω -minimal theories. 90a:03039
- Millar, Terry Finite extensions and the number of countable models. 90b:03045

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- Pierce, R. S. Countable Boolean algebras. (see 90k:06004)

03C20 Ultraproducts and related constructions

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- Beg, Ismat (with Popovici, Ioan Mircea) Ultraproduct and finite representability of Banach lattices. 90e:46016
- Foreman, Matthew (with Magidor, Menachem; Shelah, Saharon) Martin's maximum, saturated ideals and nonregular ultrafilters. II. 90a:03077
- Haydon, Richard (with Lin, Pei-Kee) Ultrapowers of rearrangement-invariant function spaces. I. 90e:46017
- Kadelburg, Z. (with Radenović, S.) Stability of ultraproducts of linear topological spaces. (Serbo-Croatian summary) 90b:46136
- Lafamme, Claude Forcing with filters and complete combinatorics. 90d:03104
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03C25 Model-theoretic forcing

- Burris, Stanley Decidable model companions. 90d:03058
- Maneritz, Larry M. (with Rowen, Louis Halle) Freedom via forcing: uniform construction of relatively free or generic structures. 90k:03030
- Rowen, Louis Halle see Maneritz, Larry M., 90k:03030
- Shen, En Shao E.c. structures and ϵ -companions. (Chinese) (Not in MR)

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- Becker, Thomas (with Fuchs, László; Shelah, Saharon) Whitehead modules over domains. 90a:13017
- Bergman, Clifford (with McKenzie, R. N.) On the relationship of AP, RS and CEP in congruence modular varieties. II. 90f:08006
- Fuchs, László see Becker, Thomas; et al., 90a:13017
- McKenzie, R. N. see Bergman, Clifford, 90f:08006
- Shelah, Saharon see Becker, Thomas; et al., 90a:13017
- Suchanek, Marek A. Forcing versus closed world assumption. 90d:68067

03C30 Other model constructions

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- Hébert, Michel Sur les algèbres libres pour les classes axiomatiques. (English summary) [Free algebras for axiomatic classes] 90i:08010

03C35 Categoricity and completeness of theories

- Laskowski, Michael Chris Uncountable theories that are categorical in a higher power. 90d:03059

- Taghva, Kazem Model completeness and direct power. 90k:03031
- Toffalori, Carlo p - \aleph_0 -categorical lattice-ordered structures. 90e:03037
- Weaver, G. E. Classifying \aleph_0 -categorical theories. 90g:03036

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- Hodges, Wilfrid Categoricity and permutation groups. 90j:03064
- Hrushovski, Ehud Totally categorical structures. 90f:03064
- Macpherson, Dugald Absolutely ubiquitous structures and \aleph_0 -categorical groups. 90a:03043
- McCarty, Charles Constructive validity is nonarithmetical. 90f:03095
- Morozov, A. S. A countably categorical decidable model without nontrivial recursive automorphisms. 90g:03041
- Pillay, A. A note on subgroups of the automorphism group of a saturated model, and regular types. 90g:03038
- Shelah, Saharon On almost categorical theories. 90m:03071
- Tanaka, Katsumi Nonabelian groups of Morley rank 2. 90a:03051

03C40 Interpolation and preservation theorems; definability

- Delon, Françoise Définissabilité avec paramètres extérieurs dans Q_2 et R . (English summary) [Definability with external parameters in Q_2 and R] 90d:03060
- Hébert, Michel Preservation and interpolation through binary relations between theories. 90c:03025

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- Büchi, J. Richard (with Senger, Steven) Definability in the existential theory of concatenation and undecidable extensions of this theory. 90a:03069
- Duchart, Dennis A unified approach to relative interpolation. 90e:03042
- Gropp, Ursula Coinductive formulas and a many-sorted interpolation theorem. 90d:03070
- Hébert, Michel (with McKenzie, R. N.; Weaver, G. E.) Two definability results in the equational context. 90b:08007
- Hodes, Harold Cardinality logics. II. Definability in languages based on 'exactly'. 90f:03015
- McKenzie, R. N. see Hébert, Michel; et al., 90b:08007
- Renardel de Lavalette, Gerard R. Interpolation in fragments of intuitionistic propositional logic. 90j:03016
- Savioz, Christian Extensions décidables et indécidables de la théorie monadique du deuxième ordre de deux fonctions de successeur. (French) [Decidable and undecidable extensions of the monadic second-order theory of two successor functions] 90k:03008
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- Senger, Steven see Büchi, J. Richard, 90a:03069
- Takano, Mitsu Interpolation theorem in many-valued logics with designated values. 90f:03041
- Weaver, G. E. see Hébert, Michel; et al., 90b:08007
- Willard, Ross A note on indecomposable lattices. 90b:06014

03C45 Stability and related concepts

- Baldwin, John T. Classification theory: 1985. 90k:03062
- (with Steinhorn, Charles) Exercises on local weight. 90m:03063
- Diverse classes. 90m:03065
- Baudisch, Andreas Classification and interpretation. 90c:03026
- Bouscaren, Elisabeth (with Hrushovski, Ehud) Classification theory, n -tuples of models and finite determinacy. 90m:03066
- Dimensional order property and pairs of models. 90a:03040
- Delon, Françoise Idéaux et types sur les corps séparables clos. (English summary) [Ideals and types over separably closed fields] 90m:03067
- Enochs, Kathryn (with Nesin, Ali) On 2-step solvable groups of finite Morley rank. 90m:03068
- Hart, Bradd An exposition of OTOP. 90m:03069
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- Unidimensional theories. An introduction to geometric stability theory. 90j:03061
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- Knight, Julia (with Lachlan, A. H.) Shrinking, stretching, and codes for homogeneous structures. 90k:03033
- Kucera, T. G. Totally transcendental theories of modules: decomposition of models and types. 90a:03042
- Lachlan, A. H. see Knight, Julia, 90k:03033
- Macpherson, Dugald Absolutely ubiquitous structures and \aleph_0 -categorical groups. 90a:03043
- Marker, David Non Σ_n axiomatizable almost strongly minimal theories. 90g:03037
- Meirembekov, K. A. Non-two-cardinal theories of abelian groups and fields. (Russian) 90a:03044
- Mustafin, T. G. The stability theory of polygons. (Russian) 90b:03047
- Nesin, Ali Groups of finite Morley rank with transitive group automorphisms. 90j:03062
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- Newelski, Ludomir Independence results for uncountable superstable theories. 90f:03065
- Pillay, A. Simple superstable theories. 90m:03070
- A note on subgroups of the automorphism group of a saturated model, and regular types. 90j:03038
- Poizat, Bruno Petrovich Hrushovski's geometries. (see 90j:03004)
- Ryaskin, A. N. The number of models for complete theories of unars. (Russian) 90d:03061
- Shelah, Saharon Classification over a predicate. II. (see 90a:03037)
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- Tanaka, Katsumi Some local properties of ω -stable groups. 90a:03045
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- Vaughn, John B. A note on forking and normalization. 90d:03062

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- (Baldwin, John T.) see Classification theory, 90b:03003 and Stability in model theory, 90k:03002
- Baudisch, Andreas On the model theory of free metabelian groups of bounded exponent. 90j:03084
- Corredor, Luis Jaime Bad groups of finite Morley rank. 90k:20074
- Kadaibergenov, K. Zh. Elementary extensions, omitting types, and homogeneous models. 90c:03038
- Lachlan, A. H. Complete coinductive theories. I. 90i:03036
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- Marker, David Semialgebraic expansions of C . 90k:03034
- Nesin, Ali Solvable groups of finite Morley rank. 90d:03068
- Non-solvable groups of Morley rank 3. 90k:20073
- Schmerl, James H. Partially ordered sets and the independence property. 90g:06006
- Tanaka, Katsumi Nonabelian groups of Morley rank 2. 90a:03051
- Tsuboi, Akito Solvable and nilpotent structures. 90j:03066
- Zilber, B. I. Hereditarily transitive groups and quasi-Urbanik structures. (Russian) 90a:03052

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03C50 Models with special properties (saturated, rigid, etc.)

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Kudalbergenev, K. Zh. On a conjecture of Shelah. (Russian) 90d:03063

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— The number of homogeneous models of a complete theory. (Russian) 90f:03066

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Bonnet, Robert see Bekkali, Mohamed, (90k:06003)

Lachlan, A. H. Complete inductive theories. I. 90i:03036

Pillay, A. A note on subgroups of the automorphism group of a saturated model, and regular types. 90g:03038

Roitman, Judy Superatomic Boolean algebras. (see 90k:06004)

Rubin, Matatyahu see Shtápnik, Petr, (90k:06003)

Ryaskin, A. N. The number of models for complete theories of unars. (Russian) 90d:03061

Shtápnik, Petr (with Rubin, Matatyahu) Homogeneous Boolean algebras. (see 90k:06003)

Tabata, Hiroyoshi (with Aragane, Kenichi) Connections between the free structures and the structures provided by McNulty. (see 90e:20002)

03C52 Properties of classes of models

Aragane, Kenichi Characterizations of the special amalgamation property for universal

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Hébert, Michel Characterizations of axiomatic categories of models canonically isomorphic to (quasi-)varieties. 90d:03064

Lachlan, A. H. Complete inductive theories. I. 90i:03036

Riedel, Herbert H. J. Existentially closed algebras and Boolean products. 90c:03027

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Barr, Michael Models of Horn theories. 90k:18006

Basarab, Serban A. Some model theory for generalized trees. 90f:03068

Rosický, J. Elementary categories. 90i:03043

03C55 Set-theoretic model theory

Shelah, Saharon On the $\text{no}(M)$ for M of singular power. (see 90a:03037)

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Hodes, Harold Cardinality logics. I. Inclusions between languages based on 'exactly'. 90f:03014

— Cardinality logics. II. Definability in languages based on 'exactly'. 90f:03015

Kakoda, Yuzuru The role of a filter quantifier in set theory. 90m:03090

Koepeke, Peter On the elimination of Malitz quantifiers over Archimedean real closed fields. 90k:03029

Lippari, Paolo Consequences of compactness properties for abstract logics. (Italian summary) 90d:03071

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— (with Giraudet, Michèle) Embeddings into simple lattice-ordered groups with different first order theories. 90j:06029

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- Grigoriyev, D. Yu. Complexity of decision for the first-order theory of real-closed fields. (Russian) 90k:03007
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- Phelidas, Thanases Hilbert's tenth problem for a class of rings of algebraic integers. 90k:12002
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- David, René A functorial Π_1^1 singleton. 90d:03106
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- Wolter, Helmut Orderings in exponential fields of term-defined functions. 90k:03064

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- Cegielski, Patrick The elementary theory of the natural lattice is finitely axiomatizable. 90j:03068
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- Sureson, Claude Chang's model and covering properties. 90e:03064
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- Flum, Jörg Model theory of regular and compact spaces. 90j:03070
- Grossberg, Rami Models with second order properties in successors of singulars. 90e:03043
- Krynicky, Michal (with Välinen, Jouko) Henkin and function quantifiers. 90i:03044
- Pedrosa, Renato H. de L. (with Sette, Antonio-M. A.) A representation theorem for languages with generalized quantifiers through back-and-forth methods. 90e:03044
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- Flum, Jörg (with Martínez, Juan Carlos) On topological spaces equivalent to ordinals. 90h:03022
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- Shelah, Saharon Classifying generalized quantifiers. (see 90a:03037)
- Weese, Martin Undecidable extensions of the theory of Boolean algebras. (see 90k:06004)

03C90 Nonclassical models (Boolean-valued, sheaf, etc.)

- Hyland, J. M. E. (with Pitts, Andrew M.) The theory of constructions: categorical semantics and topos-theoretic models. 90h:03023
- Kuznetsov, A. G. ★ Элементы булеозначного анализа. (Russian) [Elements of Boolean-valued analysis] 90k:03038
- Pillay, A. Sheaves of continuous definable functions. 90j:03071
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- Sikorskii, M. R. Some applications of Boolean-valued models to the study of operators on semi-normed spaces. (Russian) 90j:46046

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- Andréka, Hajnal (with Thompson, Richard J.) A Stone-type representation theorem for algebras of relations of higher rank. 90d:03135
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- Guitart, René L'unité de la théorie des modèles et de l'algèbre homologique. (English summary) [The unity of model theory and homological algebra] 90m:18009
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- ★ Computability, complexity, logic. 90h:68041
- Dewdney, A. K. ★ The Turing omnibus. 90g:68002
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03D03 Thue and Post systems, etc.

- Book, Ronald V. Dehn's algorithm and the complexity of word problems. 90k:03039
- Narendran, Pallath (with Otto, Friedrich) Preperfectness is undecidable for Thue systems containing only length-reducing rules and a single commutation rule. 90a:03058
- Otto, Friedrich see Narendran, Pallath, 90a:03058
- Wagner, Hubert On the emptiness problem of tree automata and completeness of modal logics of programs. 90j:03072

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- Berstel, J. Properties of infinite words: recent results. (see 90i:68014)
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- Jantzen, Matthias ★ Confluent string rewriting. 90d:68044
- Lambek, J. Grammar as mathematics. 90j:68038
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- (with Otto, Friedrich) Commutativity in groups presented by finite Church-Rosser Thue systems. (French summary) 90a:20118
- Narendran, Pallath (with O'Dúnlaing, Colm) Cancellativity in finitely presented semi-groups. 90m:68081
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- Petrov, Aleksei Nikolaevich A sequence that avoids every complete word. (Russian) 90d:68041

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- Matei, St. Über einige Anwendungen der Post-Gleichungen. (Romanian summary) [On some applications of Post's equations] (see 90d:09043)
- Semenov, A. L. A simple detailed proof for Goedel's incompleteness theorem. 90a:03059

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- Aalbersberg, I. J. (with Hoogboom, H. J.) Characterizations of the decidability of some problems for regular trace languages. 90g:68074
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- Geffert, William A representation of recursively enumerable languages by two homomorphisms and a quotient. 90d:68039
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- Scullante, Massimo (with Ventre, Aldo G. S.) Representations of the fuzzy integral. **90c:28028**
- Srivastava, Arun Kumar² see Lowen, Robert, **90d:54015**; Srivastava, Rekha; et al., **90f:54014** and **90k:54014**
- Srivastava, Rekha (with Lal, Shiva Narain; Srivastava, Arun Kumar²) On fuzzy T_1 -topological spaces. **90f:54014**
- (with Lal, Shiva Narain; Srivastava, Arun Kumar²) On fuzzy T_0 and R_0 topological spaces. **90k:54014**
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- Trillas, Enric Relational probabilities on intuitionistic lattices. **90m:03047**
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03Fxx Proof theory and constructive mathematics

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- van Dalen, D. see Troelstra, A. S., 90c:03002a and 90c:03002b
- Dragalin, A. G. ★ Mathematical intuitionism. 90f:03001
- Jervell, Herman Ruge Reasoning in trees. 90a:03036
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- Troelstra, A. S. (with van Dalen, D.) ★ Constructivism in mathematics. Vol. I. 90c:03002a

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- Xu, Yun Cong Proof theory and its development. (Chinese. English summary) 90m:03001

03F05 Cut-elimination and normal-form theorems

- Akama, Seiki On the proof method for constructive falsity. 90d:03121
- Arai, Toshiyasu On Takeuti's fundamental conjecture. (Japanese) 90f:03091
- Corsi, Giovanna On Dummett's LC quantified. (see 90c:03003)
- Dragalin, A. G. Cut-elimination theorem for higher-order classical logic: an intuitionistic proof. 90c:03049
- Girard, Jean-Yves Towards a geometry of interaction. 90c:03072
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- Serebryannikov, O. F. Cut-elimination in second order logic. 90a:03097
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- Bachholz, Wilfried (with Schütte, Kurt) ★ Proof theory of impredicative subsystems of analysis. 90c:03075
- Corsi, Giovanna A cut-free calculus for Dummett's LC quantified. 90j:03045
- Dosen, Kosta Sequent-systems and groupoid models. I. 90g:03029
- Ferrari, Pier Luigi The rank function and Hilbert's second ε -theorem. 90j:03012a
- Hosoi, Tsutomu Gentzen-type formulation of the propositional logic LQ. 90d:03047
- Komori, Yuichi Illative combinatory logic based on BCK-logic. 90i:03017
- Moriconi, Enrico A note on D. Hilbert's second ε -theorem. (Italian. English summary) 90j:03012b
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- Tamura, Saburo A Gentzen formulation without the cut rule for ortholattices. 90b:03092

03F07 Structure of proofs

- Mo, Shao Kui On the reasoning expressions and the nature of deduction rules. (Chinese summary) 90m:03100
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- Krajčev, Jan Speed-up for propositional Frege systems via generalizations of proofs. 90c:03052
- Krapež, Aleksandar see Kapetanović, Miodrag, 90m:03016
- Micali, Silvio see Goldwasser, Shafi; et al., 90f:68157
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- Zbrenžan, Andrzej The Gentzen type axiomatization of some three-valued propositional logic. 90a:03028

03F10 Functionals in proof theory

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- Scedrov, Andre The rule of computable choice for constructively provable functionals of finite type. 90b:03087

03F15 Recursive ordinals and ordinal notations

- Gordeev, L. Systems of iterated projective ordinal notations and combinatorial statements about binary labeled trees. 90m:03102
- Pläppinghaus, Peter Rekursion über Dilatoren und die Bachmann-Hierarchie. (English summary) [Recursion on dilators and the Bachmann hierarchy] 90c:03051
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03F20 Complexity of proofs

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03F25 Relative consistency and interpretations

- Drake, Frank R. On the foundations of mathematics in 1987. 90b:03047
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- Canini, Andrea Notes on formal theories of truth. 90c:03073
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03F30 First-order arithmetic and fragments

- Adamowicz, Zofia (with Kossak, Roman) A note on $\text{B}\Sigma_1$ and an intermediate induction schema. 90a:03098
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 — Maximal sets and fragments of Peano arithmetic. 90i:0307c
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 Dzhabaridze, G. K. Proof theory and some modal systems. (Russian) 90c:03074
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- Adamowicz, Zofia (with Bigorajski, Teresa) Functions provably total in $\text{I}^-\Sigma_1$. 90d:03079
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03F35 Second- and higher-order arithmetic and fragments [see also 03E30, 03E70]

- Buchholz, Wilfried (with Schütte, Kurt) ★ Proof theory of impredicative subsystems of analysis. 90c:03075
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 Louveau, Alain (with Saint-Raymond, Jean) The strength of Borel Wadge determinacy. 90b:03069
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03F40 Gödel numberings in proof theory

- Kummer, Martin Walter A note on direct sums of Friedberg numberings. 90m:03103
 Negri, Maurizio An autoapplicable truth predicate. (Italian summary) 90c:03055
 Smoryński, C. Arithmetic analogues of McAloon's unique Rosser sentences. 90d:03127

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- Ballard, David Combinatory completeness without classical equality. 90m:03027
 Beklemishev, L. D. A provability logic without the Craig interpolation property. 90j:03030
 Davis, Martin Teaching the incompleteness theorem. 90j:03078
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 Quail, Art Automated proofs of Löb's theorem and Gödel's two incompleteness theorems. 90f:03026
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03F50 Metamathematics of constructive systems

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- Yasugi, Mariko An interpretation of intuitionistic analysis with restricted transfinite inductive definitions. 90c:03078

03F55 Intuitionistic mathematics

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03Gxx Algebraic logic

03G05 Boolean algebras [see also 06Exx]

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03G15 Cylindric and polyadic algebras; relation algebras

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- Coulon, Jean-Louis see Coulon, Josette, 90j:06021
- Coulon, Josette (with Coulon, Jean-Louis) À propos de la représentation des algèbres de Łukasiewicz et des algèbres booléennes floues. (English summary) [On the representation of Łukasiewicz algebras and fuzzy Boolean algebras] 90j:06021
- Figallo, Aldo M_3 -lattices. (Spanish) 90g:06018
- Lacava, Francesco Injective L-algebras. (Italian. English summary) 90k:06018

03G25 Other algebras related to logic

- Abad, Manuel (with Monteiro, Luiz) ★ Monadic symmetric Boolean algebras. 90c:03080
- Grigoliya, R. Sh. Free Łukasiewicz algebras. (Russian) 90f:03100
- Guzmán, Fernando (with Squier, Craig C.) The algebra of conditional logic. 90m:03107
- Huang, Wan Hui Fuzzy BCK-algebras. (Chinese) (Not in MR)
- Me'nikova, L. I. see Vorontsov, N. B., (90m:00025)
- Monteiro, Luiz see Abad, Manuel, 90c:03080
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- Sharonova, N. V. see Shabanov-Kushnarenko, S. Yu.; et al., (90m:00025)
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- Ahsan, J. (with Deeba, E. Y.; Thaheem, A. B.) Maximal quotient BCK-algebras. 90i:06017
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- Chen, Jing Tu Subdirect sums of BCK-algebras. (Chinese) 90c:06025
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- Cockett, J. R. B. On the decidability of objects in a topos. 90f:03101
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- Ghilardi, S. (with Meloni, G. C.) Modal and tense predicate logic: models in presheaves and categorical conceptualization. 90h:03019
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- Baratchart, Laurent (with Grimm, José) Sur un certain type de problèmes combinatoires. [On a certain type of combinatorial problem] (see 90j:03116)
- Bebbouchi, Rachid Unicité des solutions d'une équation différentielle. [Uniqueness of the solutions of a differential equation] (see 90j:03116)
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- Ferro, Ruggero Analyse non standard et théorie des ensembles. [Nonstandard analysis and set theory] (see 90j:03116)
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Finitary mathematics and nonstandard analysis ★ Mathématiques finitaires & analyse non standard. Tome 1, 2. (French) [Finitary mathematics and nonstandard analysis. Vol. 1, 2] 90h:03005

Mathématiques finitaires & analyse non standard ★ Mathématiques finitaires & analyse non standard. Tome 1, 2. (French) [Finitary mathematics and nonstandard analysis. Vol. 1, 2] 90h:03005

Research on nonstandard analysis ★ Nonstandard analysis no kenkyū. [Research on nonstandard analysis] 90j:03005

Symposium: Research on Nonstandard Analysis ★ Nonstandard analysis no kenkyū. [Research on nonstandard analysis] 90j:03005

03H10 Other applications of infinitesimal analysis

Farkas, E. J. A faithful embedding of parallel computations in star-finite models. 90m:03110

Herrmann, Robert A. Fractals and ultrasmooth microeffects. 90d:03143

Huang, Cheng Gui From nonstandard analysis to quantum mechanics. (Chinese. English summary) 90h:03053

Richter, M. M. (with Szabo, M. E.) Nonstandard methods in combinatorics and theoretical computer science. 90g:03068

Szabo, M. E. see Richter, M. M., 90g:03068

Items with secondary classifications in 03H10

Albeverio, S. (with Gesztesy, F.; Hoegh-Krohn, Raphael; Holden, Helge) ★ Solvable models in quantum mechanics. 90a:81021

Callot, Jean-Louis Solutions visibles de l'équation de Schrödinger. [Visible solutions of the Schrödinger equation] 90k:81031

Gesztesy, F. see Albeverio, S.; et al., 90a:81021

Harthong, J. Principes variationnels et équations aux dérivées partielles. [Variational principles and partial differential equations] 90k:81055

Hoegh-Krohn, Raphael see Albeverio, S.; et al., 90a:81021

Holden, Helge see Albeverio, S.; et al., 90a:81021

Lindström, Tom Brownian motion, molecules, and Cantor sets. (Norwegian. English summary) 90a:60138

— Brownian motion on nested fractals. 90k:60157

Meĭnikov, V. L. A system of linear ordinary finite-difference equations with constant coefficients. (Russian) 90i:39007

Pearl, Judea Probabilistic semantics for nonmonotonic reasoning: a survey. (see 90b:68002)

Rashid, Salim ★ Economies with many agents. 90h:90041

Sari, Nadir Sur l'équation du pendule simple forcé. [On the equation of the simple forced pendulum] (see 90j:03116)

Wozniak, Cz. On the modelling of thermo-unelastic periodic composites: microlocal parameter theory. 90k:73022

03H15 Nonstandard models of arithmetic [see also 11U10, 12L15, 13L05]

Krajčček, Jan (with Pudlák, Pavel) On the structure of initial segments of models of arithmetic. 90d:03144

Leth, Steven C. Some nonstandard methods in combinatorial number theory. 90c:03067

— Sequences in countable nonstandard models of the natural numbers. 90h:03054

Pudlák, Pavel see Krajčček, Jan, 90d:03144

Smith, Stuart T. Nonstandard definability. 90j:03117

Items with secondary classifications in 03H15

- Adamowicz, Zofia (with Kossak, Roman) A note on BE_ω and an intermediate induction schema. 90a:03098
- Dimitracopoulos, C. Overspill and fragments of arithmetic. 90g:03059
- Ivanov, Aleksandr Anatolevich Elementary extensions of recursively saturated models of Presburger arithmetic. (Russian) 90b:03021
- Kalina, Martin (with Zlatos, Pavol) Cuts of real classes. 90d:03112
- (with Zlatos, Pavol) Borel classes in AST. Measurability, cuts and equivalence. 90i:03059
- Kossak, Roman Models with the ω -property. 90a:03053
- On extensions of models of strong fragments of arithmetic. 90d:03123
- see also Adamowicz, Zofia, 90a:03098
- Li, Bang He (with Zhang, Ji Jiang) On the Dedekind completion of \mathbb{R} . 90j:03113
- Negri, Maurizio An autoapplicable truth predicate. (Italian summary) 90c:03055
- de Oliveira, A. J. Franco L'arithmétique de Peano avec le prédicat "standard". (Peano arithmetic with the predicate "standard") 90k:03036
- Paris, Jeff B. see Wilkie, Alex J., 90k:03037
- Richardson, Daniel Nonstandard models of the theory of elementary functions of a real variable. 90a:03009
- Smith, Stuart T. Extendible sets in Peano arithmetic. 90b:03049
- Socher, Antonin Addition of initial segments. I, II. 90b:03077
- (with Vopěnka, Petr) Constructions of classes by transfinite induction in AST. 90a:03083
- Vopěnka, Petr see Socher, Antonin, 90a:03083
- Wilkie, Alex J. (with Paris, Jeff B.) On the existence of end extensions of models of bounded induction. 90k:03037
- Zhang, Ji Jiang see Li, Bang He, 90j:03113
- Zlatos, Pavol see Kalina, Martin, 90d:03112 and 90i:03059

03H20 Other nonstandard models [see also 54J05]

Items with secondary classifications in 03H20

- Kalina, Martin A sequential approach to a construction of measures. 90a:03082
- (with Zlatos, Pavol) Cuts of real classes. 90d:03112
- Probability in the alternative set theory. 90j:03096
- Milčák, J. Combinatoric properties of classes in AST. 90e:03066
- Yasumoto, Masahiro Algebraic extensions in nonstandard models and Hilbert's irreducibility theorem. 90b:12004
- Zlatos, Pavol see Kalina, Martin, 90d:03112

04-XX Set theory

04-01 Elementary exposition; textbooks

- Artmann, Benno ★ The concept of number. 90c:04001
- (Griffiths, H. B.) see Artmann, Benno, 90c:04001

Items with secondary classifications in 04-01

- Meschiari, Mauro A definition of the natural numbers. (Italian) 90k:03010

04-02 Advanced exposition (research surveys, monographs, etc.)

- Todorćević, Stevo ★ Partition problems in topology. 90d:04001

Items listed otherwise than by author

- Contemporary Mathematics see Todorćević, Stevo, 90d:04001

Items with secondary classifications in 04-02

- Kanovei, V. G. A. N. Kolmogorov's ideas in the theory of operations on sets. 90a:01057
- (Kolmogorov, A. N.) see Kanovei, V. G., 90a:01057

04-03 Historical (must also be assigned at least one classification number from Section 01)

- (Cantor, Georg) see Garcíadiego, Alejandro R., 90d:04002
- Garcíadiego, Alejandro R. Cantor and the paradoxes. (Spanish) 90d:04002

Items with secondary classifications in 04-03

- Cassinet, Jean The approximation principle of Beppo Levi. An attempt at replacing the axiom of choice (1918–1923). (Italian) 90a:01052
- Garcíadiego, Alejandro R. Bertrand Russell and the origin of paradoxes in set theory. (Spanish) (see 90m:00024)
- Kakuda, Yuzuru Set theory extracted from Cantor's theological ontology. 90d:03012
- Kanovei, V. G. A. N. Kolmogorov's ideas in the theory of operations on sets. 90a:01057
- (Kolmogorov, A. N.) see Kanovei, V. G., 90a:01057
- Kuratowski, Kazimierz ★ Selected papers. 90b:01024
- (Levi, Beppo) see Cassinet, Jean, 90a:01052
- Pia Carrera, Josep Alfred Tarski and set theory. (Catalan. English summary) 90m:03003
- (Russell, Bertrand) see Garcíadiego, Alejandro R., 90m:00024
- (Tarski, Alfred) see Pia Carrera, Josep, 90m:03003

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- Kuratowski, Kazimierz see Kuratowski, Kazimierz, 90b:01024

Biography:

- Kuratowski, Kazimierz see Kuratowski, Kazimierz, 90b:01024

04A05 Relations, functions [see also 08A02]

- Chen, Hui (with Jing, Feng Jie) Compound mappings and compound permutations. (Chinese. English summary) 90j:04001
- Clavelli, M. Universality, superuniversality, pseudomodels, pseudo-universe relations and elementary techniques. (Italian. English summary) 90f:04001
- Janssen, A. J. E. M. On exponentially weighted Toeplitz matrices and their use in the analysis of a frequency-domain, power-compensated adaptive filter. (see 90k:93007)
- Jing, Feng Jie see Chen, Hui, 90j:04001
- Lopez, Gérard (with Rauzy, Claire) Reconstructibilité des relations binaires par des familles de leurs restrictions. I. (English summary) [On the reconstructibility of binary relations from certain restrictions. I] 90a:04001a
- (with Rauzy, Claire) Reconstructibilité des relations binaires par des familles de leurs restrictions. II. (English summary) [On the reconstructibility of binary relations from certain restrictions. II] 90a:04001b
- Rauzy, Claire see Lopez, Gérard, 90a:04001a and 90a:04001b
- Šlapal, Josef Relations of type α . 90b:04001

Items with secondary classifications in 04A05

- Ehanks, B. R. (with Kannappan, P.; Ng, C. T.) Recursive inset entropies of multiplicative type on open domains. 90a:39013
- Gauthier, Henri Sur les simplifications des produits lexicographiques d'ensembles totalement ordonnés. (English summary) [On cancellations in lexicographic products of linear orderings] 90e:06001
- Kannappan, P. see Ehanks, B. R.; et al., 90a:39013
- Khovanov, N. V. The universal form of relational systems. 90e:08001
- Majid, Nihad Extension (-1) -monomorphe d'une relation binaire. (English summary) [(-1) -monomorphic extension of any binary relation] 90b:05064
- Ng, C. T. see Ehanks, B. R.; et al., 90a:39013
- Robinson, Edmund (with Rosolini, G.) Categories of partial maps. 90b:18010a
- Rosolini, G. see Robinson, Edmund, 90b:18010a
- Šlapal, Josef On closure operations induced by binary relations. 90b:54002

04A10 Transfinite numbers

- Kurepa, Djuro R. Ramification hypothesis again. 90c:04002
- Muthurei, Kandasamy Infinite products of alephs. 90d:04003
- Raoult, Jean-Claude Proving open properties by induction. 90k:04001
- Sagher, Yoram Counting the rationals. 90i:04001

Items with secondary classifications in 04A10

- (Cantor, Georg) see Garcíadiego, Alejandro R., 90d:04002
- Garcíadiego, Alejandro R. Cantor and the paradoxes. (Spanish) 90d:04002
- Trombetta, Maurizio A nontopological ω_1 -convergence with the uniqueness of limit. 90f:54007
- Wang, Zhi Tang Weyl sequences of pseudorandom numbers. (Chinese) 90m:04003

04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [see also 03E15, 28A05, 54H05]

- Grishin, V. N. (with Kanovei, V. G.) Work on descriptive set theory carried out at the V. A. Steklov Institute of Mathematics. (Russian) 90c:04001
- Kanovei, V. G. see Grishin, V. N., 90c:04001
- Miller, Harry I. On a property of Hamel bases. (Italian summary) 90e:04002
- Pfeiffer, W. F. (with Priky, Karel) Small spaces. 90m:04001
- Priky, Karel see Pfeiffer, W. F., 90m:04001
- Zajček, Laděk On σ -porous sets and Borel sets. 90m:04002
- Items with secondary classifications in 04A15
- Calbrix, Jean Filtrés boréliens sur l'ensemble des entiers et espaces des applications continues. [Borel filters on the set of integers and spaces of continuous mappings] 90a:54043
- Corazza, Paul The generalized Borel conjecture and strongly proper orders. 90c:03042
- Dowd, Martin An extension of the Lebesgue measure pertaining to the repeated experiment. 90b:28003
- Harrington, Leo (with Marker, David; Shelah, Saharon) Borel orderings. 90c:03041
- Just, Winfried The space $(\omega^*)^{\omega^+}$ is not always a continuous image of $(\omega^*)^\omega$. 90h:54013
- Kanovei, V. G. A. N. Kolmogorov's ideas in the theory of operations on sets. 90a:01057
- Kaufman, Robert P. Metric spaces and ideals of functions. 90m:46043
- Kechris, Alexander S. (with Louveau, Alain) ★ Descriptive set theory and the structure of sets of uniqueness. 90a:42008
- (with Louveau, Alain) A classification of Baire class 1 functions. 90f:26005
- (Kolmogorov, A. N.) see Kanovei, V. G., 90a:01057
- Komjáth, Péter On second-category sets. 90b:03067
- Louveau, Alain see Kechris, Alexander S., 90a:42008 and 90f:26005
- Lyons, Russell A new type of sets of uniqueness. 90m:43024
- Maltra, A. (with Rao, B. V.; Srivatsa, V. V.) Some applications of selection theorems to parametrization problems. 90c:28008
- Marker, David see Harrington, Leo; et al., 90c:03041
- Mauldin, R. Daniel One-to-one selections and orthogonal transition kernels. 90b:28001
- Pawlikowski, Janusz Products of perfectly meager sets and Lusin's function. 90b:54025
- Rao, B. V. see Maltra, A.; et al., 90c:28008
- Schilling, Kenneth Some category bases which are equivalent to topologies. 90g:28003
- Shelah, Saharon see Harrington, Leo; et al., 90c:03041
- Srivatsa, V. V. see Maltra, A.; et al., 90c:28008
- Wang, Zhi Tang Weyl sequences of pseudorandom numbers. (Chinese) 90m:04003
- Wu, Li Sheng Souslin subsets of $P(\omega)$ -spaces. 90f:54037

04A20 Combinatorial [see also 05A05]; filters

- Johnson, Chris A. On saturated ideals and $P_\kappa \lambda$. 90b:04001
 Jost, Winfried A bounded paradoxical subset of the plane. (Russian summary) 90e:04003
 Kannan, V. (with Venkataraman, M.) What is an ultrafilter? (Not in MR)
 Kiplani, A. E. Some combinatorial problems, connected with product-isomorphisms of binary relations. 90c:04003
 Monk, J. Donald Appendix on set theory. (see 90k:06004)
 Nicol, Sherrie J. Continuous and exact sets of specified cardinality. 90g:04001
 Venkataraman, M. see Kannan, V., (Not in MR)
 Wang, Zhi Tang Weyl sequences of pseudorandom numbers. (Chinese) 90m:04003
 Yan, Li The number of isomorphism classes of regular and atomic subfields in the power set of an infinite set. (Chinese) 90f:04002

Items with secondary classifications in 04A20

- Baratchart, Laurent (with Grimm, José) Sur un certain type de problèmes combinatoires. [On a certain type of combinatorial problem] (see 90j:03116)
 Canjar, R. Michael On the generic existence of special ultrafilters. 90m:03083
 Dow, Alan (with Juhász, I.; Weiss, William A. R.) Integer-valued functions and increasing unions of first countable spaces. 90j:03092
 Feng, Qi (with Jech, Thomas) Local clubs, reflection, and preserving stationary sets. 90a:03072
 Franzen, Berthold (with Göbel, Rüdiger) Prescribing endomorphism algebras. The cotorsion-free case. 90b:16050
 Gibbon, Greg G. Functions having stationary constant sets. 90b:03062
 Göbel, Rüdiger see Franzen, Berthold, 90b:16050
 Graham, R. L. (with Rothschild, Bruce L.; Spencer, Joel H.) ★ Ramsey theory. 90m:05003
 Grimm, José see Baratchart, Laurent, (90j:03116)
 Jech, Thomas see Feng, Qi, 90c:03072
 Juhász, I. see Dow, Alan, et al., 90j:03092
 Kalamidas, N. (with Zachariades, Th.) An extension of a result on $I^1(\Gamma)$ -embeddings. 90f:46031
 Krü, I. Well-quasiordering finite trees with gap-condition. Proof of Harvey Friedman's conjecture. 90f:05128
 Kurepa, Djuro R. Constancy levels of increasing mappings of some kinds of ordered sets. 90c:06007
 — Ramification hypothesis again. 90c:04002
 Laflamme, Claude Forcing with filters and complete combinatorics. 90d:03104
 Liu, Xiao Shi Discreteness of lattices. (Chinese) 90i:06024
 Matet, Pierre Some filters of partitions. 90b:03064
 — Concerning stationary subsets of $[A]^{<\omega}$. 90m:03084
 Minkkin, V. V. Autohomeomorphism groups of spaces with unique nonisolated point. 90f:54061
 Pantsulaya, G. R. Independent families of sets and some of their applications to measure theory. (Russian. English and Georgian summaries) 90m:03085
 Papazyan, Talin The existence of almost translation invariant ultrafilters on any semigroup. 90c:54004
 Pelant, Jan (with Reiterman, Jan; Rödl, V.; Simon, Petr) Ultrafilters on ω and atoms in the lattice of uniformities. II. 90e:54059
 Pfeffer, W. F. (with Prikrý, Karel) Small spaces. 90m:04001
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 Renaud, J.-C. see Sarvate, D. G., 90e:05004
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 Ross, David Andrew Tree self-embeddings. 90b:06005
 Rothschild, Bruce L. see Graham, R. L., et al., 90m:05003
 Sarvate, D. G. (with Renaud, J.-C.) On the union-closed sets conjecture. 90e:05004
 Shelah, Saharon ★ Around classification theory of models. 90a:03037
 — The existence of coding sets. (see 90a:03037)
 — More on stationary coding. (see 90a:03037)
 — Remarks on squares. (see 90a:03037)
 — (with Stanley, Lee) Weakly compact cardinals and nonspecial Aronszajn trees. 90e:03060
 Sidorenko, A. F. Exact values of Turán numbers. (Russian) 90a:05008
 Simon, Petr see Pelant, Jan, et al., 90e:54059
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 Stanley, Lee see Shelah, Saharon, 90e:03060
 Tuza, Zolt Intersection properties and extremal problems for set systems. 90f:05100
 Weiss, William A. R. see Dow, Alan, et al., 90j:03092
 Zachariades, Th. see Kalamidas, N., 90f:46031

04A25 Axiom of choice and related propositions (Zorn's lemma, etc.) [see also 03E25]

- Banaschewski, B. Compact regular frames and the Sikorski theorem. 90c:04004
 Diener, Karl-Heinz Two new algebraic equivalents to the axiom of choice. 90c:04005
 Kim, Sang Mun Variants of the well ordering theorem and the axioms of choice and multiple choice. 90g:04002
 Mañka, R. Turinici's fixed point theorem and the axiom of choice. 90f:04002
 McCartan, S. D. Topological equivalents of the axiom of choice. 90d:04004
 Rav, Yehuda Subdirect decomposition of rings and the axiom of choice. 90d:04005
 Zhou, Ge Equivalence of some theorems in the ZFC axiom system. (Chinese) (Not in MR)
 Items with secondary classifications in 04A25
 Buskes, G. (with van Rooij, A.) Small Riesz spaces. 90e:46009
 Cassinet, Jean The approximation principle of Bopp Levi. An attempt at replacing the axiom of choice (1918–1923). (Italian) 90a:01052
 Feldman, David (with Henriksen, M.) f -rings, subdirect products of totally ordered rings, and the prime ideal theorem. 90f:06031a
 — see also Luxemburg, W. A. J., 90f:06031b
 Henriksen, M. see Feldman, David, 90f:06031a and Luxemburg, W. A. J., 90f:06031b

(Levi, Beppe) see Cassinet, Jean, 90a:01052

- Luxemburg, W. A. J. A remark on a paper by D. Feldman and M. Henriksen concerning the definition of f -rings: " f -rings, subdirect products of totally ordered rings, and the prime ideal theorem" [Nederl. Akad. Wetensch. Indag. Math. 50 (1988), no. 2, 121–126; MR 90f:06031a]. 90f:06031b
 Mañka, R. Some forms of the axiom of choice. (German summary) 90j:03091
 Morillon, Marianne Une forme géométrique de l'axiome de l'idéal premier. [A geometric form of the prime ideal axiom] 90f:06015
 Paseka, Jan The Tychonoff product theorem for finite spaces and the Boolean ultrafilter theorem are equivalent. (Arabic summary) 90k:03049
 Pollard, Stephen Plural quantification and the axiom of choice. 90i:03053
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 Rav, Yehuda Semiprime ideals in general lattices. 90e:06015
 — Lattice theoretical equivalences of the ultrafilter principle. 90d:03098
 van Rooij, A. see Buskes, G., 90e:46009

04A30 Continuum hypothesis, generalized continuum hypothesis [see also 03E50, 54A25]

Items with secondary classifications in 04A30

- Heindorf, Lutz A note on irredundant sets. 90a:08006
 Miller, Harry I. On a property of Hamel bases. (Italian summary) 90e:04002
 Pantsulaya, G. R. Independent families of sets and some of their applications to measure theory. (Russian. English and Georgian summaries) 90m:03085
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 Sersouri, A. ω -independence in nonseparable Banach spaces. 90a:46021
 Shelah, Saharon On reconstructing separable reduced p -groups with a given socle. 90g:20079
 Simms, John C. Traditional Cavalieri principles applied to the modern notion of area. 90j:03095
 (Tarski, Alfred) see Pla Carrera, Josep, 90m:03003

04A99 Miscellaneous topics

- Huang, Ming Yu The equivalence of Cantor's and Dedekind's theories of the real numbers. (Chinese) 90m:04004
 Items with secondary classifications in 04A99
 Clavelli, M. Universality, superuniversality, pseudomodels, pseudo-universe relations and elementary techniques. (Italian. English summary) 90f:04001
 Kakuda, Yuzuru Set theory extracted from Cantor's theological ontology. 90d:03012

05-XX Combinatorics {For finite fields, see 11Txx.}

- Baranov, V. I. (with Stechkin, B. S.) ★ Экстремальные комбинаторные задачи и их приложения. (Russian) [Extremal combinatorial problems and their applications] 90m:05001
 Stechkin, B. S. see Baranov, V. I., 90m:05001

05-01 Elementary exposition; textbooks

- Alexanderson, G. L. see Hillman, Abraham P., et al., 90d:05001
 Anderson, Ian ★ A first course in combinatorial mathematics. 90i:05001
 Buckley, Fred (with Harary, F.) ★ Distance in graphs. 90m:05002
 Grassl, Richard M. see Hillman, Abraham P., et al., 90d:05001
 Harary, F. see Buckley, Fred, 90m:05002
 Hillman, Abraham P. (with Alexanderson, G. L.; Grassl, Richard M.) ★ Discrete and combinatorial mathematics. 90d:05001
 (Medkov, K.) see Combinatorial analysis, 90f:05002
 Nigler, Günter see Walther, Hansjoachim, 90g:05001
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 Townsend, Michael ★ Discrete mathematics: applied combinatorics and graph theory. 90f:05001
 Walther, Hansjoachim (with Nigler, Günter) ★ Graphen—Algorithmen—Programme. (German) [Graphs—algorithms—programs] 90g:05001

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- Combinatorial analysis ★ Análisis combinatorio. (Spanish) [Combinatorial analysis] 90f:05002

Problems:

- Combinatorial analysis ★ Análisis combinatorio. (Spanish) [Combinatorial analysis] 90f:05002

Items with secondary classifications in 05-01

- Baxter, Nancy (with Dubinsky, Ed; Levin, Gary) ★ Learning discrete mathematics with ISETL. 90c:00002
 Böhme, Thomas (with Walther, Hansjoachim) Über neuere Entwicklungen der Graphentheorie. [On recent developments of graph theory] 90e:05025
 Deng, Chai Ling (with Lim, Chong Keang) Augmentation and decomposition of k -requirement matrices. 90m:15002
 Dubinsky, Ed see Baxter, Nancy, et al., 90c:00002
 (Efimov, Oleg) see Yablonskii, S. V., 90k:00012

Gavrilov, G. P. (with Sapozhenko, A. A.) ★ Selected problems in discrete mathematics. 90m:06011

Guy, Richard K. The strong law of small numbers. 90c:11002

Levin, Gary. See Baxter, Nancy; et al. 90c:06002

Lim, Chong Keang. See Deng, Chai Ling. 90m:15002

Sapozhenko, A. A. See Gavrilov, G. P. 90m:06011

Schmidt, Gunther W. (with Ströhlein, Thomas) ★ Relationen und Graphen. (German) [Relations and graphs] 90g:06001

Ströhlein, Thomas. See Schmidt, Gunther W. 90g:06001

Wadhwani, Natalia V. See Gavrilov, G. P. 90m:06011

Wadhwani, R. S. See Gavrilov, G. P. 90m:06011

Walther, Hansjoachim. See Böhme, Thomas. 90c:05025

Yablonskii, S. V. ★ Introduction to discrete mathematics. 90k:06012

05-02 Advanced exposition (research surveys, monographs, etc.)

Brouwer, A. E. (with Cohen, Arjeh M.; Neumaier, A.) ★ Distance-regular graphs. 90c:05001

Cohen, Arjeh M. See Brouwer, A. E.; et al. 90c:05001

Graham, R. L. (with Rothschild, Bruce L.; Spencer, Joel H.) ★ Ramsey theory. 90m:05003

Neumaier, A. See Brouwer, A. E.; et al. 90c:05001

Rothschild, Bruce L. See Graham, R. L.; et al. 90m:05003

Spencer, Joel H. See Graham, R. L.; et al. 90m:05003

Wilf, Herbert S. ★ Combinatorial algorithms: an update. 90g:05002

Items with secondary classifications in 05-02

Mohar, Bojan (with Woess, Wolfgang) A survey on spectra of infinite graphs. 90d:05162

Nemhauser, George L. (with Wolsey, Laurence A.) ★ Integer and combinatorial optimization. 90b:90097

Woess, Wolfgang. See Mohar, Bojan. 90d:05162

Wolsey, Laurence A. See Nemhauser, George L. 90b:90097

05-03 Historical (must also be assigned at least one classification number from Section 01)

Mulder, Henry Martyn To see the history for the trees. 90c:05002

Items with secondary classifications in 05-03

Agarwal, Ratan P. Some recent works of Ramanujan—an overview. 90b:01037

Andrews, George J. J. Sylvester, John Hopkins and partitions. 90c:01014

(Dirac, Gabriel Andrew) See Erdős, Paul. 90b:01072

Erdős, Paul On some aspects of my work with Gabriel Dirac. 90b:01072

(Ramanujan, Srinivasa) See Agarwal, Ratan P. 90b:01037

Sachs, Horst Einige Gedanken zur Geschichte und zur Entwicklung der Graphentheorie.

[Some thoughts on the history and development of graph theory] 90c:01001

(Sylvester, J. J.) See Andrews, George. 90c:01014

05-04 Explicit machine computation and programs (not the theory of computation or programming)

Cocan, Moise Several considerations regarding the generation of graphs. (See 90m:06044)

Fujisawa, Toshio. See Masuda, Sumio; et al. 90m:05004

Jeger, M. Kombinatorik mit dem Computer: Klassifikationen und damit verwandte Figuren. [Combinatorics with the computer: classifications and figures related to them] 90j:05001

Kashiwabara, Toshinobu. See Masuda, Sumio; et al. 90m:05004

Masuda, Sumio (with Nakajima, Kazuo; Kashiwabara, Toshinobu; Fujisawa, Toshio)

Efficient algorithms for finding maximum cliques of an overlap graph. 90m:05004

Nakajima, Kazuo. See Masuda, Sumio; et al. 90m:05004

Shiraishi, Shuji A parallel algorithm for the maximum uniform partition of line graph.

90m:05005

Valibouze, Annick Fonctions symétriques et changements de bases. (English summary)

[Symmetric functions and changes of basis] 90m:05006

Items with secondary classifications in 05-04

Amir, Amihoud (with Landau, Gad M.) Fast parallel and serial multidimensional

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- Liu, Yan Pei Plane partitions of rooted outerplanar maps. (Chinese) (Not in MR) 90c:05022
- O'Hara, Kathleen M. Bijections for partition identities. 90d:05022
- Okada, Seichi On the generating functions for certain classes of plane partitions. 90c:05009
- Padmanabhamma On Andrews' generalized Frobenius partitions. 90k:05019
- Prömel, Hans Jürgen (with Voigt, B.) A short proof of the restricted Ramsey theorem for finite set systems. 90k:05020
- (with Voigt, B.) A partition theorem for $[0, 1]$. 90h:05021
- Propp, James Some variants of Ferrers diagrams. 90h:05022
- Ridd, V. *see* Frankl, Peter; et al., 90h:05019
- Singh, M. K. *see* Dubey, S. N., (Not in MR)
- Stanley, Richard P. Plane partitions: past, present, and future. 90g:05026
- Ueno, Yoshiaki On the generating functions of the Young lattice. 90a:05016
- Voigt, B. *see* Lefmann, Hanno, 90h:05020; Prömel, Hans Jürgen, 90h:05021 and 90k:05020
- Wu, Jian An (with Lin, Hua Yi) The generating function for a class of skew plane partitions. (Chinese. English summary) 90c:05013
- Zhou, Wan Kun Partitions of sets and Latin squares. (Chinese. English summary) 90c:05011

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- Agarwal, Ashok Kumar¹ On a generalized partition theorem. 90c:11149
- (with Andrews, George; Bressoud, David M.) The Bailey lattice. 90i:11113
- New combinatorial interpretations of two analytic identities. 90g:05027
- Andrews, George *see* Agarwal, Ashok Kumar¹; et al., 90i:11113
- Bergelson, Vitaly (with Hindman, Neil) Nonmetrizable topological dynamics and Ramsey theory. 90k:03046
- Biedenharn, L. C. (with Louck, J. D.) Inhomogeneous basis set of symmetric polynomials defined by tableaux. 90m:22031
- Bonetti, F. (with Senato, Domenico; Venezia, A.) The Robinson-Schensted correspondence for the fourfold algebra. (Italian. English summary) 90b:15025
- Bressoud, David M. Lattice paths and the Rogers-Ramanujan identities. 90k:05009
- In the land of OZ. 90j:05012
- *see also* Agarwal, Ashok Kumar¹; et al., 90i:11113
- Canfield, E. Rodney (with Williamson, S. Gill) A combinatorial study of straightening bases. 90k:20011
- Egecioglu, Ö. (with Remmel, J. B.) A combinatorial interpretation of the inverse Kostka matrix. 90m:05011
- Erdős, Paul (with Nicolas, Jean-Louis; Szalay, M.) Partitions into parts which are unequal and large. 90g:11140
- (with Nicolas, Jean-Louis; Sárközy, A.) On the number of partitions of n without a given subsum. I. 90c:11151
- Garsia, A. M. (with Wachs, M. L.) Combinatorial aspects of skew representations of the symmetric group. 90h:20013
- Goupil, Alain On products of conjugacy classes of the symmetric group. 90j:20010
- Haiman, Mark On mixed insertion, symmetry, and shifted Young tableaux. 90j:05014
- Hindman, Neil *see* Bergelson, Vitaly, 90k:03046
- Jeger, M. Kombinatorik mit dem Computer: Klassifikationen und damit verwandte Figuren. [Combinatorics with the computer: classifications and figures related to them] 90j:05001
- Joichi, J. T. (with Stanton, Dennis) An involution for Jacobi's identity. 90f:05006
- King, Ronald Curtis S -functions and characters of Lie algebras and superalgebras. 90k:17014
- Kwong, Y. H. Harris Minimum periods of partition functions modulo M . 90b:11099
- Langlands, R. P. The factorization of a polynomial defined by partitions. 90j:11101
- Louck, J. D. *see* Biedenharn, L. C., 90m:22031
- La, Shi Rong Explicit equations for the KP and MKP hierarchies. 90i:58075
- Nicolas, Jean-Louis *see* Erdős, Paul; et al., 90c:11151 and 90g:11140
- Olsson, Jörn B. On the p -blocks of symmetric and alternating groups and their covering groups. 90k:20022
- Poljak, Svatopluk (with Tuza, Zsolt) On the maximum number of qualitatively independent partitions. 90c:05007
- Remmel, J. B. A formula for the Kronecker products of Schur functions of hook shapes. 90h:20015
- *see also* Egecioglu, Ö., 90m:05011
- Sagan, Bruce E. The ubiquitous Young tableau. 90k:05017
- Sárközy, A. *see* Erdős, Paul; et al., 90c:11151
- Senato, Domenico A bijective proof of the fundamental theorem on symmetric functions. 90d:05027
- *see also* Bonetti, F.; et al., 90b:15025
- Stanton, Dennis *see* Joichi, J. T., 90f:05006
- Stembridge, John R. Shifted tableaux and the projective representations of symmetric groups. 90k:20026
- Hall-Littlewood functions, plane partitions, and the Rogers-Ramanujan identities. 90j:05021
- Szalay, M. *see* Erdős, Paul; et al., 90g:11140
- Torriani, Hugo H. Constructive implicit function theorems. 90h:05017
- Tuza, Zsolt *see* Poljak, Svatopluk, 90c:05007
- Van der Jeugt, J. Unimodal polynomials arising from Lie superalgebras. 90c:17013
- Venezia, A. *see* Bonetti, F.; et al., 90b:15025
- Wachs, M. L. *see* Garsia, A. M., 90h:20013
- Williamson, S. Gill *see* Canfield, E. Rodney, 90i:20011
- Yang, Kung-Wei On the product $\prod_{n \geq 1} (1 + q^n x + q^{2n} x^2)$. 90i:11114

05A19 Combinatorial identities

- Agarwal, Ashok Kumar¹ (with Bressoud, David M.) Lattice paths and multiple basic hypergeometric series. 90c:05010
- New combinatorial interpretations of two analytic identities. 90g:05027
- Ainsworth, O. R. (with Neggers, J.) Combinatorial identities and a convolution algebra of power series. 90g:05028

- Arkin, Joseph (with Arney, David C.; Bergum, Gerald E.; Burr, Stefan A.; Porter, Bruce J.) Unique Fibonacci formulas. 90i:05007
- Arney, David C. *see* Arkin, Joseph; et al., 90i:05007
- Bergum, Gerald E. *see* Arkin, Joseph; et al., 90i:05007
- Bressoud, David M. *see* Agarwal, Ashok Kumar¹, 90c:05010
- Burr, Stefan A. *see* Arkin, Joseph; et al., 90i:05007
- Chu, Wen Chang Multiple form of Gould-Hsu inversions. (Chinese) 90c:05011
- A family of Lebesgue-Stieltjes integral identities. (Chinese. English summary) 90c:05012
- A class of bivariate reciprocal formulas and some combinatorial identities. (Chinese. English summary) 90a:05017
- A partition identity on binomial coefficients and its applications. 90c:05013
- A family of algebraic identities and their applications. (Chinese. English summary) 90k:05021
- Alternating simulation and multi-extension of an identity of Littlewood. (Chinese) 90k:05022
- The splitting summation technique and combinatorial identities. (Chinese. English summary) 90j:05018
- Denis, R. Y. On certain q -series and continued fraction identities. 90c:05014
- On certain summation of q -series and identities of Rogers-Ramanujan type. 90a:05018
- Egorychev, G. P. Combinatorial sums. Integral representation and calculation. (Russian) 90d:05023
- Henrici, Peter Product theorems for formal hypergeometric series. 90c:05019
- Huang, Chih Hsiung Some combinatorial identities in computer sorting. 90c:05014
- Kirillov, A. N. The Lagrange identity and the hook formula. (Russian. English summary) 90j:05023
- Longyear, Judith Q. A peculiar partition formula. 90i:05008
- Lupas, Alexandru Dobinski-type formula for binomial polynomials. (Romanian summary) 90i:05009
- Neggers, J. *see* Ainsworth, O. R., 90g:05028
- Porter, Bruce J. *see* Arkin, Joseph; et al., 90i:05007
- Regev, Amital From polynomial to formal identities. 90j:05019
- Stanton, Dennis An elementary approach to the Macdonald identities. 90j:05020
- Stembridge, John R. Hall-Littlewood functions, plane partitions, and the Rogers-Ramanujan identities. 90j:05021
- Vershik, A. M. The hook formula and related identities. (Russian. English summary) 90j:05022
- Zeilberger, Doron Identities. 90i:05010
- Zeng, Jiang Pfaff-Saalschütz revisited. 90h:05018

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- Agarwal, Ratan P. Some recent works of Ramanujan—an overview. 90b:01037
- Andrews, George (with Garvan, F. G.) Ramanujan's "lost" notebook. VI. The mock theta conjectures. 90d:11115
- (with Baxter, Rodney James) A motivated proof of the Rogers-Ramanujan identities. 90c:11147
- Askey, Richard Orthogonal polynomials and theta functions. 90h:33006
- Baxter, Rodney James *see* Andrews, George, 90c:11147
- Bernard, Denis Towards generalized Macdonald's identities. 90j:17034
- Bressoud, David M. Almost poised basic hypergeometric series. 90c:33010
- Problems on the Z -statistic. 90b:05007
- Butzer, P. L. (with Hauss, M.; Schmidt, Michael) Factorial functions and Stirling numbers of fractional orders. 90m:33016
- Chu, Wen Chang On the lattice path methods in convolution-type combinatorial identities. (Chinese summary) 90j:05013
- Multifold analogues of Gould-Hsu inversions and their applications. 90j:05016
- Clarke, Francis The universal von Staudt theorems. 90a:11026
- Cosgrove, C. *see* Glasser, M. L., 90b:11074
- Date, E. (with Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) Exactly solvable SOS models. II. Proof of the star-triangle relation and combinatorial identities. 90c:82077
- (with Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) A new realization of the basic representation of $A_n^{(1)}$. 90f:17036
- Egorychev, G. P. (with Iványi, Antal; Makosi, A. I.) Analysis of two combinatorial sums that characterize the speed of a computer with block memory. (Russian) 90d:68062
- *see also* Xu, Li Zhi, 90d:05017
- Ekhad, Shalosh B. Short proofs of two hypergeometric summation formulas of Karlsson. 90j:33005
- Garvan, F. G. (with Stanton, Dennis) Sieved partition functions and q -binomial coefficients. 90j:11102
- *see also* Andrews, George, 90d:11115
- Glasser, M. L. (with Cosgrove, C.) A Gaussian-geometric finite sum formula. 90b:11074
- Gustafson, Robert A. A generalization of Selberg's beta integral. 90j:33001
- Habsieger, Laurent Macdonald conjectures and the Selberg integral. 90i:33002
- Hauss, M. *see* Butzer, P. L.; et al., 90m:33016
- Hilton, Peter John (with Pedersen, Jean) Extending the binomial coefficients to preserve symmetry and pattern. 90c:05005
- Iványi, Antal *see* Egorychev, G. P.; et al., 90d:68062
- Jiang, Mao Sen *see* Xu, Li Zhi, 90d:05017
- Jimbo, Michio *see* Date, E.; et al., 90c:82077 and 90f:17036
- Joichi, J. T. (with Stanton, Dennis) An involution for Jacobi's identity. 90f:05006
- Kato, Yoshifumi The determinants of matrices whose elements decrease geometrically in diagonal direction. 90k:05012
- Kolitsch, Louis Worthy A relationship between certain colored generalized Frobenius partitions and ordinary partitions. 90m:11150
- Kuniba, A. *see* Date, E.; et al., 90c:82077 and 90f:17036
- Larsen, Mogens Esrom Josef Wichmann's harmonic Wronskians. 90k:15001
- Lepowsky, James Perspectives on vertex operators and the Monster. 90f:17031
- Macdonald, I. G. An elementary proof of a q -binomial identity. 90j:05026
- Makosi, A. I. *see* Egorychev, G. P.; et al., 90d:68062

- Mallows, C. L. Identities satisfied by iterated polynomials and (Q, x) -binomial coefficients. 90c:11032
- Miwa, Tetsuji *see* Date, E.; et al., 90c:82077 and 90c:17036
- Obald, S. A. (with Rung, D. C.) New mathematical identities with applications to flexure and torsion. 90c:33001
- Okada, Seichi On the generating functions for certain classes of plane partitions. 90c:05009
- Okado, Masato *see* Date, E.; et al., 90c:82077 and 90c:17036
- Pauksho, M. V. A combinatorial identity that is connected with differential equations of infinite order. (Russian) 90c:34005
- Pedersen, Jean *see* Hilton, Peter John, 90c:05005
- (Ramanujan, Srinivasa) *see* Agarwal, Ratan P., 90b:01037
- Roger, Amital A combinatorial proof for an identity of Procesi of S_3 characters. 90a:20026
- Rung, D. C. *see* Obald, S. A., 90c:33001
- Schmidt, Michael *see* Butser, P. L.; et al., 90m:33016
- Stanton, Dennis *see* Joichi, J. T., 90f:05006 and Garvan, F. G., 90j:11102
- Sepankowski, Wojciech On an alternative sum useful in the analysis of some data structures. (see 90f:68007)
- Ueno, Kazuo General power umbral calculus in several variables. 90m:05014
- Viennot, Gérard Xavier Bijections for the Rogers-Ramanujan reciprocal. 90m:11149
- Xu, Li Zhi (with Jiang, Mao Sen) Comment on G. P. Egorychev's book: *Integral representation and the computation of combinatorial sums* ["Nauka" Sibirsk. Otdel., Novosibirsk, 1977; MR 58 #10474]. (Chinese summary) 90d:05017

05A20 Combinatorial inequalities

- Aczél, J. (with Páles, Z.) The behaviour of means under equal increments of their variables. 90c:05015
- Ahlsvede, R. (with Cai, N.; Zhang, Zhen) A general 4-words inequality with consequences for 2-way communication complexity. 90b:05019
- Alzer, Horst Über eine Verallgemeinerung der Bernoullischen Ungleichung. [On a generalization of the Bernoulli inequality] 90m:05013
- Bollobás, Béla The number of unrelated partitions. 90a:05020
- Bondarenko, L. N. An asymptotic estimate for a combinatorial sum. (Russian) 90g:05029
- Cai, N. *see* Ahlsvede, R.; et al., 90b:05019
- Chor, Benny (with Gerb-Graus, Mihály) On the influence of single participant in coin flipping schemes. 90d:05024
- Gerb-Graus, Mihály *see* Chor, Benny, 90d:05024
- Modan, L. About a Sperner's result. (Romanian summary) 90f:05012
- Páles, Z. *see* Aczél, J., 90c:05015
- Zhang, Zhen *see* Ahlsvede, R.; et al., 90b:05019

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- Anderson, Richard John (with Lovász, László; Shor, Peter; Spencer, Joel H.; Tardos, Éva; Winograd, Shmuel) Disks, balls, and walls: analysis of a combinatorial game. 90c:90169
- Berkovich, T. Ya. (with Berkovich, Ya. G.) Primitive systems of subsets of a finite set. (Russian) 90f:05003
- Berkovich, Ya. G. *see* Berkovich, T. Ya., 90f:05003
- Björner, Anders (with Kalai, Gil) On f -vectors and homology. 90f:52008
- Brenti, Francesco Unimodal, log-concave and Pólya frequency sequences in combinatorics. 90d:05014
- Chu, Wen Chang Some algebraic identities concerning determinants and permanents. 90b:15004
- Engel, Konrad On the Fibonacci number of an $m \times n$ lattice. 90m:11033
- Frankl, Peter Old and new problems on finite sets. 90c:05005
- A lower bound on the size of a complex generated by an antichain. 90g:05006
- Jia, Xing De On a combinatorial problem of Erdős and Nathanson. (Chinese) 90i:11018
- Kalai, Gil *see* Björner, Anders, 90f:52008
- Kleitman, Daniel Collections of sets without unions and intersections. 90b:05004
- Lovász, László *see* Anderson, Richard John; et al., 90c:90169
- Mareńich, E. E. Bound for values of the Möbius function. (Russian) 90a:06005
- Pitowsky, Itamar From George Boole to John Bell—the origins of Bell's inequality. (see 90i:81018)
- Shor, Peter *see* Anderson, Richard John; et al., 90c:90169
- Spencer, Joel H. *see* Anderson, Richard John; et al., 90c:90169
- Tardos, Éva *see* Anderson, Richard John; et al., 90c:90169
- Winograd, Shmuel *see* Anderson, Richard John; et al., 90c:90169

05A30 q -calculus and related topics [see also 33-XX]

- Andrews, George Physics, Ramanujan, and computer algebra. 90d:05025
- Denis, R. Y. On certain q -series and continued fractions. 90f:05013
- On certain multiple series and q -identities. 90j:05024
- Gasper, George Ribasic summation, transformation and expansion formulas, q -analogues of Clausen's formula, and nonnegative basic hypergeometric series. 90j:05025
- Goodman, Fred (with O'Hara, Kathleen M.) On the Gaussian polynomials. 90j:05026a
- Kadell, Kevin W. J. The q -Selberg polynomials for $n = 2$. 90d:05026
- Kratenthaler, Christian On the q -log-concavity of Gaussian binomial coefficients. 90j:05027
- Macdonald, I. G. An elementary proof of a q -binomial identity. 90j:05026c
- O'Hara, Kathleen M. *see* Goodman, Fred, 90j:05026a
- Srivastava, Hari M. Sums of a certain class of q -series. 90b:05023
- Zeilberger, Doron A one-line high school algebra proof of the unimodality of the Gaussian polynomials [2] for $k < 20$. 90j:05026b
- Items with secondary classifications in 05A30
- Agarwal, Ashok Kumar¹ (with Andrews, George; Bressoud, David M.) The Bailey lattice. 90i:11113
- (with Bressoud, David M.) Lattice paths and multiple basic hypergeometric series. 90c:05010
- Agarwal, Ratan P. Some recent works of Ramanujan—an overview. 90b:01037

- Andrews, George Mock theta functions. 90b:33005
- *see also* Agarwal, Ashok Kumar¹; et al., 90i:11113
- Askey, Richard Beta integrals and q -extensions. 90c:33004
- Continuous q -Hermite polynomials when $q > 1$. 90b:33019
- Blecksmith, Richard (with Brillhart, John; Gerst, Irving) On the mod 2 reciprocity of infinite modular-part products and the parity of certain partition functions. 90g:05025
- Brenti, Francesco Unimodal polynomials arising from symmetric functions. 90g:05016
- Bressoud, David M. Lattice paths and the Rogers-Ramanujan identities. 90k:05009
- In the land of OZ. 90j:05012
- Problems on the Z -statistic. 90a:05007
- *see also* Agarwal, Ashok Kumar¹, 90c:05010 and 90i:11113
- Brillhart, John *see* Blecksmith, Richard; et al., 90g:05025
- Chu, Wen Chang On the lattice path methods in convolution-type combinatorial identities. (Chinese summary) 90j:05013
- Natural q -analogs of Gould-Hsu inversions. (Chinese summary) 90b:05011
- Denis, R. Y. On certain generating functions for basic hypergeometric polynomials. 90f:33003
- On certain special transformations of poly-basic hypergeometric functions. 90c:33002
- On certain q -series and continued fraction identities. 90c:05014
- On certain summation of q -series and identities of Rogers-Ramanujan type. 90a:05018
- Feinsilver, Philip Elements of q -harmonic analysis. 90i:43010
- Garvan, F. G. Some Macdonald-Mehta integrals by brute force. 90k:33030
- (with Stanton, Dennis) Sieved partition functions and q -binomial coefficients. 90j:11102
- Gasper, George (with Rahman, Mizan) A nonterminating q -Clausen formula and some related product formulas. 90b:33013
- (with Rahman, Mizan) An indefinite bibasic summation formula and some quadratic, cubic and quartic summation and transformation formulas. 90k:33032
- Gerst, Irving *see* Blecksmith, Richard; et al., 90g:05025
- Habsieger, Laurent Autour de la conjecture de Dyson. [Concerning the Dyson conjecture] 90k:05011
- Ismael, Mourad E. H. (with Libis, Carl A.) Contiguous relations, basic hypergeometric functions, and orthogonal polynomials. I. 90b:33010
- Jain, Vinod Kumar (with Srivastava, Hari M.) Some general q -polynomial expansions for functions of several variables and their applications to certain q -orthogonal polynomials and q -Lauricella functions. 90c:33031
- Joichi, J. T. (with Stanton, Dennis) An involution for Jacobi's identity. 90f:05006
- Kato, Yoshifumi The determinants of matrices whose elements decrease geometrically in diagonal direction. 90k:05012
- Kerov, S. V. Combinatorial examples in the theory of AF-algebras. (Russian. English summary) 90j:46062
- Kirillov, A. N. (with Reshetikhin, N. Yu.) Representations of the algebra $U_q(\mathfrak{sl}(2))$, q -orthogonal polynomials and invariants of links. 90m:17022
- Kratenthaler, Christian q -analogue of a two variable inverse pair of series with applications to basic double hypergeometric series. 90g:33004
- One-variable q -analogues for Abhyankar's inversion formula. 90f:05007
- Libis, Carl A. *see* Ismael, Mourad E. H., 90b:33010
- Lupaş, Alexandru A q -analogue of the Bernstein operator. 90b:41026
- Mallows, C. L. Identities satisfied by iterated polynomials and (Q, x) -binomial coefficients. 90c:11032
- Masuda, Tetsuya (with Mimachi, Katsuhisa; Nakagami, Yoshiomi; Nouri, Masatoshi; Ueno, Kimio) Representations of quantum groups and a q -analogue of orthogonal polynomials. (French summary) 90a:17013
- Mercier, Armel Une note sur les coefficients binomiaux de Gauss. [A note on Gauss binomial coefficients] 90k:33004
- Identities containing Gaussian binomial coefficients. 90f:05004
- Miller, Willard, Jr. Symmetry techniques and orthogonality for q -series. 90k:33005
- Milne, S. C. A q -analogue of the Gauss summation theorem for hypergeometric series in $U(n)$. 90c:33006
- Mimachi, Katsuhisa *see* Masuda, Tetsuya; et al., 90a:17013
- Nakagami, Yoshiomi *see* Masuda, Tetsuya; et al., 90a:17013
- Nikiforov, A. F. (with Uvarov, V. B.) Classical orthogonal polynomials of a discrete variable and their representation in the form of generalized q -hypergeometric series. (Russian) 90k:33014
- Nouri, Masatoshi *see* Masuda, Tetsuya; et al., 90a:17013
- O'Hara, Kathleen M. Unimodality of Gaussian coefficients: a constructive proof. 90k:05024
- Okada, Seichi On the generating functions for certain classes of plane partitions. 90c:05009
- Padmarathnamma On Andrews' generalized Frobenius partitions. 90k:05019
- Rahman, Mizan An addition theorem and some product formulas for q -Bessel functions. 90k:33015
- Some extensions of Askey-Wilson's Q -beta integral and the corresponding orthogonal systems. 90b:33010
- A note on the orthogonality of Jackson's q -Bessel functions. 90b:33015
- *see also* Gasper, George, 90b:33013 and 90k:33032
- (Ramanujan, Srinivasa) *see* Agarwal, Ratan P., 90b:01037
- Reshetikhin, N. Yu. *see* Kirillov, A. N., 90m:17022
- Sato, Junya q -analogue of Riemann's ζ -function and q -Euler numbers. 90d:11132
- Singh, Surya Narain On q -series expansions. 90j:33006
- Srivastava, Hari M. An extension of the q -Saalschützian theorem. 90f:33007
- *see also* Jain, Vinod Kumar, 90b:33031
- Stanton, Dennis An elementary approach to the Macdonald identities. 90j:05020
- *see also* Joichi, J. T., 90f:05006 and Garvan, F. G., 90j:11102
- Stembridge, John R. Hall-Littlewood functions, plane partitions, and the Rogers-Ramanujan identities. 90j:05021
- Sullivan, Francis J. A note on the q -gamma functions. (Italian summary) 90a:33002
- Ueno, Kimio *see* Masuda, Tetsuya; et al., 90a:17013
- Uvarov, V. B. *see* Nikiforov, A. F., 90k:33014
- Yang, Kung-Wei On the product $\prod_{n \geq 1} (1 + q^n x + q^{2n} x^2)$. 90i:11114
- Zeilberger, Doron Kathy O'Hara's constructive proof of the unimodality of the Gaussian polynomials. 90g:05021

05A40 Umbral calculus

- Grabner, Sandy Convergent expansions and bounded operators in the umbral calculus. 90c:05015
- Loeb, Daniel E. (with Rota, Gian-Carlo) Formal power series of logarithmic type. 90f:05014
- Rota, Gian-Carlo *see* Loeb, Daniel E., 90f:05014
- Senato, Domenico A bijective proof of the fundamental theorem on symmetric functions. 90d:05027
- Ueno, Kazuo General power umbral calculus in several variables. 90m:05014
- Items with secondary classifications in 05A40
- Kholodov, A. N. The umbral calculus on many-valued formal groups, and Adams projectors in K -theory. 90e:55010
- Lupaş, Alexandru Dobinski-type formula for binomial polynomials. (Romanian summary) 90i:05009
- Ray, Nigel Stirling and Bernoulli numbers for complex oriented homology theory. 90f:55010
- Loops on the 3-sphere and umbral calculus. 90i:55006

05A99 None of the above, but in this section

- Aigner, M. The double selection problem. 90a:05021
- Bek, Mirosław Remarks on the permeability of submeasures on finite algebras. 90d:05028
- Cameron, Peter J. Some sequences of integers. 90i:05011
- Cummings, L. J. (with Yucas, Joseph) Paths of Lyndon words. 90k:05023
- Díaz, Julio Enrique (with González, Jaime; Lacourly, Nancy) Construction of rankings dans un tournoi. (English summary) [Construction of rankings in tournaments] 90m:05015
- Fishburn, Peter C. (with Marcus-Roberts, Helen M.; Roberts, Fred S.) Unique finite difference measurement. 90d:05029
- González, Jaime *see* Díaz, Julio Enrique; et al., 90m:05015
- Kleitman, Daniel Divisors without unit-congruent ratios. 90e:05016
- Labelle, Jacques (with Yeh, Yeong Nan) The relation between Burnside rings and combinatorial species. 90c:05016
- Lacourly, Nancy *see* Díaz, Julio Enrique; et al., 90m:05015
- Linial, N. (with Tarsi, Michael) Interpolation between bases and the shuffle exchange network. 90c:05017
- Marcus-Roberts, Helen M. *see* Fishburn, Peter C.; et al., 90d:05029
- Minsker, Steven The Towers of Hanoi rainbow problem: coloring the rings. 90i:05012
- O'Hara, Kathleen M. Unimodality of Gaussian coefficients: a constructive proof. 90k:05024
- Prömel, Hans Jürgen Some remarks on natural orders for combinatorial cubes. 90d:05030
- Roberts, Fred S. *see* Fishburn, Peter C.; et al., 90d:05029
- Spencer, Joel H. Six sigmas suffice. 90i:05013
- Stipin, A. M. (with Tagi-Zade, A. T.) A combinatorial interpretation of the entropy of symbolic systems. 90m:05016
- Tagi-Zade, A. T. *see* Stipin, A. M., 90m:05016
- Tarsi, Michael *see* Linial, N., 90c:05017
- Tripathi, Amitabha A box filling problem. 90j:05028
- Trotter, W. T. Problems and conjectures in the combinatorial theory of ordered sets. 90a:05022
- Yeh, Yeong Nan *see* Labelle, Jacques, 90c:05016
- Yucas, Joseph *see* Cummings, L. J., 90k:05023

Items with secondary classifications in 05A99

- Bergeron, F. Algorithms for sequential generation of combinatorial structures. 90d:68027
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05Bxx Designs and configurations {For applications of design theory, see 94C30.}

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05B07 Steiner triple systems

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05B10 Difference sets (number-theoretic, group-theoretic, etc.) [see also 11B13]

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- Vershik, A. M. Topology of the convex polytopes' manifolds, the manifold of the projective configurations of a given combinatorial type and representations of lattices. 90d:52007
- Whittle, Geoff Dowling group geometries and the critical problem. 90g:51008
- q -lifts of tangential k -blocks. 90d:51020
- Zaslavsky, Thomas Biased graphs. I. Bias, balance, and gain. 90k:05138
- Matroids determine the embeddability of graphs in surfaces. 90a:05075
- Zheng, Han Ding (with Liu, Gui Zhen) Some properties on paths in matroid base graphs. 90f:05119
- Ziegler, Günter M. Multiarrangements of hyperplanes and their freeness. 90c:32015
- Combinatorial construction of logarithmic differential forms. 90j:32016
- The face lattice of hyperplane arrangements. 90a:52015
- Matroid representations and free arrangements. 90k:32045
- Zilber, B. I. Hereditarily transitive groups and quasi-Urbanik structures. (Russian) 90a:03052

05B40 Packing and covering [see also 11H31, 52A45]

- Bertolazzi, Paola (with Sassano, Antonio) A class of polynomially solvable set-covering problems. 90a:05053
- Buskens, R. W. *see* Stanton, Ralph G., 90c:05062
- Domingues, Hygino Hugueros Algebras and coalgebras associated with a covering. (Portuguese. English summary) 90d:05072
- Franzblau, D. S. Performance guarantees on a sweep-line heuristic for covering rectilinear polygons with rectangles. 90f:05040
- Füredi, Zoltán A projective plane is an outstanding 2-cover. 90c:05059
- Gyárfás, A. (with Lehel, J.; Tuza, Zsolt) Clumsy packing of dominoes. 90c:05060
- Horton, J. D. *see* Mullin, R. C., 90b:05039
- Lehel, J. *see* Gyárfás, A.; et al., 90c:05060
- Mullin, R. C. (with Horton, J. D.) Bicovers of pairs by quintuples: v even. 90b:05039
- Petrenyuk, A. Ya. On the constructive enumeration of packings and coverings of index one. 90i:05054
- Qu, Wan Ling A "covering" problem for subsets. (Chinese. English summary) 90d:05073
- Rees, Rolf The perfect pair-covering numbers $g^{(3+2)}(1, 2; 9t+6)$. 90j:05052
- Sane, Sharad S. (with Wirmani-Prasad, Anjana) Covering problems. 90d:05074
- On the exact minimal $(1, 4)$ -cover of twelve points. 90a:05054

- Sassano, Antonio *see* Bertolazzi, Paola, 90a:05053
- Stanton, Ralph G. (with Street, Anne Penfold) Further results on minimal defect graphs on seventeen points. 90c:05061
- (with Buskens, R. W.) An interesting packing number. 90c:05062
- Street, Anne Penfold *see* Stanton, Ralph G., 90c:05061
- Todorov, D. T. Lower bounds for coverings of pairs by large blocks. 90k:05055
- Tuzs, Zolt *see* Gyárfás, A.; et al., 90c:05060
- Wirmani-Prasad, Anjana *see* Sane, Sharad S., 90d:05074
- Items with secondary classifications in 05B40
- Coffman, E. G., Jr. (with Lagarias, J. C.) Algorithms for packing squares: a probabilistic analysis. 90b:68037
- Cohen, Gérard Denis Nonlinear covering codes: a few results and conjectures. 90j:94045
- Crama, Y. (with Hammer, Peter L.) Bimatroidal independence systems. (German summary) 90f:05037
- David, Guy René (with Tomei, C.) The problem of the calissons. 90c:51024
- Fejes Tóth, G. (with Fejes Tóth, László) A geometrical analogue of the phase transformation of crystals. 90d:52021
- Fejes Tóth, László *see* Fejes Tóth, G., 90d:52021
- Fes, Thomas A. (with Resende, Mauricio G. C.) A probabilistic heuristic for a computationally difficult set covering problem. 90c:90168
- Ginzburg, V. V. (with Zefvinskii, I. G.) Group hierarchies in hierarchical packing constructions. (Russian) 90g:94022
- Graham, R. L. (with Sloane, N. J. A.) Penny-packing and two-dimensional codes. 90j:52016
- Hammer, Peter L. *see* Crama, Y., 90f:05037
- Hsu, D. Frank (with Lyuu, Yuh-Dauh) Lower bounds on sphere partition in symmetric groups. 90c:20005
- Kabatyanski, G. A. (with Panchenko, V. I.) Packings and coverings of the Hamming space by balls of unit radius. 90j:94031
- Kern, Walter (with Wanka, Alfred) On a problem about covering lines by squares. 90c:52016
- Koch, Helmut (with Venkov, B. B.) Über ganzzahlige unimodulare euklidische Gitter. [On integral unimodular Euclidean lattices] 90g:11082
- Lagarias, J. C. *see* Coffman, E. G., Jr., 90b:68037
- van Lint, J. H. Recent results on covering problems. 90i:94011
- Lyuu, Yuh-Dauh *see* Hsu, D. Frank, 90c:20005
- Nobili, Paolo (with Sassano, Antonio) Facets and lifting procedures for the set covering polytope. 90m:90280
- Panchenko, V. I. Packings and coverings over an arbitrary alphabet. 90j:94032
- *see also* Kabatyanski, G. A., 90j:94031
- Pott, Gregory J. (with Taylor, Desmond P.) Sphere-packing upper bounds on the free distance of trellis codes. 90a:94046
- Rabinowitz, Stanley A theorem about collinear lattice points. 90j:52014
- Resende, Mauricio G. C. *see* Fes, Thomas A., 90c:90168
- Rodla, Bart (with Sullivan, Dennis) The convergence of circle packings to the Riemann mapping. 90c:30007
- Sassano, Antonio *see* Nobili, Paolo, 90m:90280
- Sloane, N. J. A. *see* Graham, R. L., 90j:52016
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- Yakovlev, S. V. On a class of problems on covering of a bounded set. 90g:52020
- Zefvinskii, I. G. *see* Ginzburg, V. V., 90g:94022

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- Arkin, Joseph (with Arney, David C.; Bergum, Gerald E.; Burr, Stefan A.; Porter, Bruce J.) Recurring-sequence tiling. 90g:05064
- Arney, David C. *see* Arkin, Joseph; et al., 90g:05064
- Bergum, Gerald E. *see* Arkin, Joseph; et al., 90g:05064
- Burr, Stefan A. *see* Arkin, Joseph; et al., 90g:05064
- Du, Ding Zhu (with Hsu, D. Frank; Xu, K.-J.) Bounds on guillotine ratio. 90c:05063
- Hsu, D. Frank *see* Du, Ding Zhu; et al., 90c:05063
- Klarnar, David A. (with Magliveras, Spyros S.) The number of tilings of a block with blocks. 90c:05064
- Magliveras, Spyros S. *see* Klarnar, David A., 90c:05064
- Porter, Bruce J. *see* Arkin, Joseph; et al., 90g:05064
- Stehling, Thomas Paarweise kantendisjunkte maximale matchings in normalen periodischen Pflasterungen. (English summary) [Pairwise edge-disjoint maximal matchings in normal periodic tilings] 90a:05055
- Xu, K.-J. *see* Du, Ding Zhu; et al., 90c:05063

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- Chinn, P. Z. (with Munton, Dan) On the edge-connectivity and separation sequences of rectangular grid graphs. 90f:05086
- Dahlke, Karl A. The Y -hexomino has order 92. 90b:05041
- A heptomino of order 76. 90b:05042
- Erratum: "A heptomino of order 76" [J. Combin. Theory Ser. A 51 (1989), no. 1, 127–128; MR 90b:05042]. 90j:05053
- (Escher, M. C.) *see* Schattschneider, Doris, 90b:01054
- Fischer, Werner (with Koch, Elke) Genera of minimal balance surfaces. 90i:53009
- Gefen, Yuval *see* Parlovitch, Andréi; et al., 90m:52015
- Golomb, S. W. Polyominoes which tile rectangles. 90b:05040
- de la Harpe, Pierre Quelques problèmes non résolus en géométrie plane. [Some unsolved problems in plane geometry] 90m:52014
- Kléman, M. *see* Olami, Z., 90a:52029 and Pavlovitch, Andréi; et al., 90m:52015
- Koch, Elke *see* Fischer, Werner, 90i:53009

- Léger, Christian (with Terrasson, Jean-Claude) Les cinq métamorphoses des surfaces pavées. (English summary) [The five metamorphoses of tessellated surfaces] 90a:51018
- Makovsky, E. Ornamental brickwork. Theoretical and applied symmetrology and classification of patterns. 90c:51025
- Munton, Dan *see* Chinn, P. Z., 90f:05086
- Olami, Z. (with Kléman, M.) A two-dimensional aperiodic dense tiling. (French summary) 90a:52029
- Parlovitch, Andréi (with Gefen, Yuval; Kléman, M.) Statistics of "worms" in Penrose tilings. 90m:52015
- (Pólya, George) *see* Schattschneider, Doris, 90b:01054
- Rigby, J. F. Some new regular compound tessellations. 90f:52022
- Roth, Richard L. Isohedral tilings of a ribbon. 90g:52017
- Schattschneider, Doris The Pólya-Escher connection. 90b:01054
- Scheithauer, Guntram (with Terno, Johannes) The partition of a square in rectangles with equal areas. (German and Russian summaries) 90a:52030
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- Polymorphic pairs of prototiles. 90f:52024
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- Terrasson, Jean-Claude *see* Léger, Christian, 90a:51018

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- Bent, Samuel W. Stable transversals and stochastic functions in polyominoes. 90d:05075
- Dahlke, Karl A. The Y -hexomino has order 92. 90b:05041
- A heptomino of order 76. 90b:05042
- Erratum: "A heptomino of order 76" [J. Combin. Theory Ser. A 51 (1989), no. 1, 127–128; MR 90b:05042]. 90j:05053
- Golomb, S. W. Polyominoes which tile rectangles. 90b:05040
- Rawsthorne, Daniel A. Tiling complexity of small n -ominoes ($n < 10$). 90c:05065
- Items with secondary classifications in 05B50
- Chinn, P. Z. (with Munton, Dan) On the edge-connectivity and separation sequences of rectangular grid graphs. 90f:05086
- Gyárfás, A. (with Lehel, J.; Tuza, Zolt) Clumsy packing of dominoes. 90c:05060
- Lehel, J. *see* Gyárfás, A.; et al., 90c:05060
- Munton, Dan *see* Chinn, P. Z., 90f:05086
- Piazza, Barry L. (with Ringelsen, Richard D.) A combinatorial analysis of Preston's dodecamino table. 90d:05102
- Ringelsen, Richard D. *see* Piazza, Barry L., 90d:05102
- Tuza, Zolt *see* Gyárfás, A.; et al., 90c:05060

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- Beresin, May (with Levine, Eugene; Winn, John) A chessboard coloring problem. 90d:05076
- Clark, Dean S. (with Shisha, Oved) Invulnerable queens on an infinite chessboard. 90b:05041
- Harborth, Heiko (with Oertel, Philipp; Prellberg, Thomas) No-three-in-line for seventeen and nineteen. 90f:05041
- Iványi, Antal Construction of infinite de Bruijn arrays. 90d:05077
- Le, Mao Hua (with Li, Wei Xuan; Wang, Edward T.) A generalization of the n queen problem. (Chinese. English summary) 90c:05066
- Leighton, Frank Thomson (with Shor, Peter) Tight bounds for minimax grid matching with applications to the average case analysis of algorithms. 90k:05056
- Levine, Eugene *see* Beresin, May; et al., 90d:05076
- Li, Wei Xuan *see* Le, Mao Hua; et al., 90c:05066
- Liebler, Robert A. Tactical configurations and their generic ring. 90k:05057
- Marušić, Dragan (with Scapellato, Raffaele; Zagaglia Salvi, N.) A characterization of particular symmetric $(0, 1)$ matrices. 90f:05042
- Mo, Shao Kui *see* You, Bao San, 90a:05056
- Oertel, Philipp *see* Harborth, Heiko; et al., 90f:05041
- Prellberg, Thomas *see* Harborth, Heiko; et al., 90f:05041
- Scapellato, Raffaele *see* Marušić, Dragan; et al., 90f:05042
- Shisha, Oved *see* Clark, Dean S., 90b:05041
- Shor, Peter *see* Leighton, Frank Thomson, 90k:05056
- Wang, Edward T. *see* Le, Mao Hua; et al., 90c:05066
- Winn, John *see* Beresin, May; et al., 90d:05076
- You, Bao San (with Mo, Shao Kui) On chess-moving (continued). (Chinese. English summary) 90a:05056
- Zagaglia Salvi, N. *see* Marušić, Dragan; et al., 90f:05042
- Zeng, Chuan Ming An analysis of the structure of point systems. (Chinese. English summary) (Not in MR)

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- Brand, Neal Isomorphisms of cyclic combinatorial objects. 90g:05096
- Erdős, Paul Some old and new problems in combinatorial geometry. 90a:52017
- Finashin, S. M. Configurations of seven points in RP^3 . 90c:14035
- Mazurovskii, V. F. Configurations of six skew lines. (Russian. English summary) 90b:14067
- Orlik, Peter ★ Introduction to arrangements. 90i:32018
- Palásti, Ilona A distance problem of P. Erdős with some further restrictions. 90i:52017
- Rylands, L. J. (with Taylor, D. E.) Rubik's clock. (Not in MR)
- Sáiz, Tamás (with Wettl, Ferenc) On complexes in a finite abelian group. I. 90c:20066a
- (with Wettl, Ferenc) On complexes in a finite abelian group. II. 90c:20066b
- Taylor, D. E. *see* Rylands, L. J., (Not in MR)
- Tripathi, Amitabha A box filling problem. 90j:05028
- Wettl, Ferenc *see* Sáiz, Tamás, 90c:20066a and 90c:20066b
- Wa, Wei Liang Minimum cost stable matching. (Chinese. English summary) 90c:90190

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05Cxx Graph theory {For applications of graphs, see 68Q90, 68R10, 94C15.}

- Böhme, Thomas (with Walther, Hansjoachim) Über neuere Entwicklungen der Graphentheorie. [On recent developments of graph theory] 90a:05025
 Lai, Chun Hui On a conjecture of Erdős, Goodman and Pósa. (Chinese) (Not in MR)
 Parthasarathy, Koduvayur Ramalyer Basic definitions—link with algorithms—data structures—algorithm COMPs. 90d:05078a
 — Complexity—connectivity parameters—higher order components—bond-cycle duality—discussion of algorithms—algorithm. 90d:05078b
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 Cheston, Grant A. (with Farley, Arthur M.; Hedetniemi, S. T.; Proskurowski, Andrzej) Centering a spanning tree of a biconnected graph. 90m:05043
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 — (with Volgenant, Anton) An edge elimination test for the Steiner problem in graphs. 90b:05043
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 — (with Colbourn, Charles J.) Partitioning the edges of a planar graph into two partial k -trees. 90f:05044
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- Items with secondary classifications in 05C05
- Abrahamson, K. (with Dadoun, N.; Kirkpatrick, D. G.; Przytycka, T.) A simple parallel tree contraction algorithm. 90g:68108
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 — NC-algorithms for graphs with small treewidth. (see 90h:68091)
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- Delest, M.-P. (with Fedou, J. M.) Labeled trees and relations on generating functions. (French summary) (see 90c:68015)
- Ding, Ji Yu see Hwang, F. K.; et al., 90a:05109
- Dumets, G. A. see Asel'derova, I. M., 90c:05081
- Doshi, Kshitij see Varman, Peter, 90c:68031
- Du, Ding Zhu (with Ko, Ker-I) On the complexity of an optimal routing tree problem. 90j:68018
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- Edelsbrunner, Herbert (with Guibas, Leonidas; Hershberger, John; Seidel, Raimund; Sharir, Micha; Snoeyink, Jack Scott; Welzl, Emo) Implicitly representing arrangements of lines or segments. 90m:68112
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- Syslo, Maciej M. (with Winter, Paweł) Independent covers in outerplanar graphs. (see 90f:68007)
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- Alavi, Yousef (with Buckley, Fred; Shamula, Marc; Ruiz, Sergio) Highly irregular m -chromatic graphs. 90c:05079
- see also Thomassen, Carsten; et al., 90h:05054
- Albertson, M. O. (with Jamison, R. E.; Hedetniemi, S. T.; Locke, S. C.) The subchromatic number of a graph. 90f:05057
- Al-Wahabi, K. (with Bari, R.; Harary, F.; Ullman, D.) The edge-distinguishing chromatic number of paths and cycles. 90a:05076
- Asratyan, A. S. (with Kamalyan, R. R.) Interval colorings of the edges of a multigraph. (Russian. Armenian summary) 90d:05093
- Bari, R. (with Kahn, S. Z.) Chromatic equivalence and chromatic uniqueness. 90m:05053
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- Baumann, Ulrike Über das Erzeugen minimaler Kantenfärbungen von Graphen. [On the generation of minimal edge colorings of graphs] 90g:05077
- Beane, Donald G. (with Biggs, Norman; Wilson, Brian J.) The growth rate of the harmonic chromatic number. 90d:05094
- Beikirch, W. Kantenfärbungen vollständiger paarer Graphen, die durch Gruppen definiert sind. [Edge colorings of complete paired graphs which are defined by groups] 90a:05077
- Berge, C. A new color change to improve the coloring of a graph. 90f:05058
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- Broere, Izak (with Burger, Marieta) Critically cochromatic graphs. 90a:05079
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- Caccetta, L. (with Pullman, Norman J.) Regular graphs with prescribed chromatic number. 90k:05071
- Cameron, Kathie A min-max relation for the partial q -colourings of a graph. II. Box perfection. 90c:05081
- Campers, G. (with Henkes, O.; Leclercq, J. P.) Graph coloring heuristics: a survey, some new propositions and computational experiences on random and "Leighton's" graphs. (French summary) 90d:05095
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- Chetwynd, A. G. (with Hilton, A. J. W.) Some refinements of the total chromatic number conjecture. 90g:05079
- (with Hilton, A. J. W.) 1-factorizing regular graphs of high degree—an improved bound. 90g:05080
- (with Hilton, A. J. W.) A Δ -subgraph condition for a graph to be class 1. 90a:05080
- (with Hilton, A. J. W.; Hoffman, D. G.) On the Δ -subgraph of graphs which are critical with respect to the chromatic index. 90c:05082
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- Chia, G. L. Some remarks on the chromatic uniqueness of graphs. 90j:05065

- Chrobak, Marek (with Yung, Moti) Fast algorithms for edge-coloring planar graphs. 90b:05048
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- On the Penrose number of cubic diagrams. 90c:05086
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- Toft, Bjarne A list of 25 graph colouring problems. 90c:05096
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- (with Chen, Zi Qi; Zhao, Cheng) A note on edge coloring of graphs. (Chinese. English summary) 90i:05041
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- Balasubramanian, K. Reduced cycle indices and their applications in enumeration of NMR signals and equivalence classes. 90e:92110
- Baldi, Pierre (with Posner, Edward C.) Graph coloring bounds for cellular radio. (Not in MR)
- Bandyopadhyay, S. K. see Sen Sarma, S. (Not in MR)
- Baumann, Ulrike (with Lesch, Manfred) Transitive groups of partition preserving automorphisms of graphs with edge colourings. 90d:05114
— (with Lesch, Manfred) Automorphisms of uniquely edge colourable graphs. 90g:05095
- Berge, C. On the chromatic index of a linear hypergraph and the Chvátal conjecture. 90i:05101
- Bodlaender, Hans L. Polynomial algorithms for graph isomorphism and chromatic index on partial k -trees. (see 90f:68007)
- Bordini, O. V. Representing of $K_{1,3}$ as a 2-pire map on the Klein bottle. 90d:05084
- Brown, Jason I. (with Colbourn, Charles J.) A set system polynomial with colouring and reliability applications. 90a:68065
- Chang, W. I. (with Lawler, Eugene L.) Edge coloring of hypergraphs and a conjecture of Erdős, Faber, Lovász. 90a:05141
- Chiaracci, Rossana Colored pseudocomplexes and their fundamental groups. (Italian. English summary) 90e:57002
- Chrobak, Marek (with Yung, Moti) Fast parallel and sequential algorithms for edge-coloring planar graphs (extended abstract). (see 90f:68010)
— see also Hagerup, Torben; et al., 90b:68034
- Colbourn, Charles J. see Brown, Jason I., 90a:68065
- Costa, Antonio F. Coloured graphs representing manifolds and universal maps. 90d:05086
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- Diks, Krzysztof see Hagerup, Torben; et al., 90b:68034
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- Erdős, Paul (with Lovász, László; Veszteg, Zoltán) On the graph of large distances. 90i:05048
— (with Faudree, R.; Gyárfás, A.; Schelp, R. H.) Domination in colored complete graphs. 90i:05049
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- Faudree, R. see Erdős, Paul; et al., 90i:05049
- Goldberg, Andrew V. (with Plotkin, Serge A.; Shannon, Gregory E.) Parallel symmetry-breaking in sparse graphs. 90e:68082
- Gutjahr, Wolfgang (with Welzl, Emo; Woeginger, Gerhart) Polynomial graph-colorings. (see 90b:68014)
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- Hagerup, Torben (with Chrobak, Marek; Diks, Krzysztof) Optimal parallel 5-colouring of planar graphs. 90b:68034
- Hedetniemi, S. T. (with Laskar, R.) A bipartite theory of graphs. II. 90i:05116
- Hertz, A. Skeletal graphs—a new class of perfect graphs. 90i:05079
- Jamison, Beverly (with Olariu, Stephan) P_4 -reducible graphs—a class of uniquely tree-representable graphs. 90g:05151
— (with Olariu, Stephan) A new class of brittle graphs. 90g:05152
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- Lins, Sébastien Invariant groups on equivalent crystallizations. 90k:57001
- Lovász, László see Erdős, Paul; et al., 90i:05048
- Maddox, Randall B. On k -dependent subsets and partitions of k -degenerate graphs. 90b:05077
- Meyniel, Henri About colorings, stability and paths in directed graphs. 90g:05092
- Nebesky, Ladislav Embedding m -quasistars into n -cubes. 90c:05069
- Olariu, Stephan (with Randall, J.) Welsh-Powell opposition graphs. 90f:05118
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- Pippenger, Nicholas (with Spencer, Joel H.) Asymptotic behavior of the chromatic index for hypergraphs. 90h:05091
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- Seymour, P. D. see Alon, Noga, 90j:05093
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06-XX Order, lattices, ordered algebraic structures [see also 18B35]

06-01 Elementary exposition; textbooks

Items with secondary classifications in 06-01

- Schneeweiss, Winfrid G. ★ Boolean functions with engineering applications and computer programs. 90h:06007

06-02 Advanced exposition (research surveys, monographs, etc.)

- Anderson, Marlow (with Feil, Todd) ★ Lattice-ordered groups. 90h:06001
(Bonnet, Robert) *see* Koppelberg, Sabine, 90k:06002; Handbook: Boolean algebras, 90k:06003 and 90k:06004
- Drašković, Hilda (with Katriňák, Tibor; Kolibiar, M.) Distributive lattices, Boolean algebras and related lattices. (Russian) 90k:06001
- Feil, Todd *see* Anderson, Marlow, 90h:06001
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- (Gedeonová, Eva) *see* Ordered sets and lattices, 90d:06001
- Katriňák, Tibor *see* Drašković, Hilda; et al., 90k:06001
- Kolibiar, M. *see* Drašković, Hilda; et al., 90k:06001
- Koppelberg, Sabine ★ Handbook of Boolean algebras. Vol. 1. 90k:06002
(Monk, J. Donald) *see* Koppelberg, Sabine, 90k:06002; Handbook: Boolean algebras, 90k:06003 and 90k:06004

Items listed otherwise than by author

Handbook:

- Boolean algebras ★ Handbook of Boolean algebras. Vol. 2. 90k:06003
— ★ Handbook of Boolean algebras. Vol. 3. 90k:06004

Ordered sets and lattices ★ Упорядоченные множества и решетки. II. (Russian) [Ordered sets and lattices. II] 90d:06001

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- Salli, V. N. Partially ordered sets. Semilattices. Generalizations of lattices. (Russian) 90i:06004

06-04 Explicit machine computation and programs (not the theory of computation or programming)

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- Neßelmann, Dieter *see* Häntzschel, Thomas, 90k:06008
- Wille, Rudolf Lattices in data analysis: how to draw them with a computer. 90k:06014

06-06 Proceedings, conferences, etc.

(Rival, Ivan) *see* Algorithms and order, 90j:06002

Items listed otherwise than by author

- Algorithms and order ★ Algorithms and order. 90j:06002
- NATO Advanced Study Institute:
Algorithms and Order ★ Algorithms and order. 90j:06002
- Ottawa, ON ★ Algorithms and order. 90j:06002

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- (Schein, Boris M.) *see* American Mathematical Society Translations, Series 2, 90j:00026
- (Silver, Ben) *see* American Mathematical Society Translations, Series 2, 90j:00026

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- American Mathematical Society Translations, Series 2 ★ American Mathematical Society Translations. Series 2. Vol. 141. 90j:00026

06Axx Ordered sets

06A05 Total order

- Gauthier, Henri Sur les simplifications des produits lexicographiques d'ensembles totalement ordonnés. (English summary) [On cancellations in lexicographic products of linear orderings] 90c:06001
- Hagendorf, Jean Guillaume Sur la reconstruction des ordres totaux. [On the reconstruction of total orderings] 90c:06001

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- Blanchard, Nicole (Fuzzy) fixed point property in L -underdeterminate sets. 90a:03085
- Droste, Manfred The existence of rigid measurable spaces. 90b:28001
- Hart, Sue O. (with Williamson, S. Gill) Menus of Kuratowski subgraphs. 90c:05027
- He, Bo Yong The problem of the existence of order homomorphisms between linearly ordered fuzzy lattices. (Chinese. English summary) 90c:06016
- Koppelberg, Sabine Maximal chains in interval algebras. 90m:06009
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- Stachowiak, Grzegorz The number of linear extensions of bipartite graphs. 90f:06009
- Williamson, S. Gill *see* Hart, Sue O., 90c:05027

06A10 Partial order

- Abian, Alexander Partially ordered sets of sequences and the related Boolean algebras. 90c:06002
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- Albert, Michael H. (with Frieze, A. M.) Random graph orders. 90i:06001
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- Atkinson, M. D. Partially ordered sets and sorting. 90a:06001
— The complexity of orders. 90m:06003
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- El-Zahar, Mohamed H. Enumeration of ordered sets. 90m:06005
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- Fishburn, Peter C. Interval orders and circle orders. 90f:06005
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- Neßelmann, Dieter see Häntzschel, Thomas, 90k:06008
- Nevermann, Peter κ -embeddings of ordered sets. 90e:06009
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- (with Sidney, J. B.; Sidney, S. J.; Urrutia, Jorge) Geometric containment and partial orders. 90e:06010
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- Watanabe, Keiichi see Narushima, Hiroshi; et al., 90b:06003 and Hibi, Takayuki; et al., 90b:06004
- Wen, Zhen Wei On the optimality of the depth greedy algorithm for the bump number problem in ordered sets. (Chinese. English summary) 90f:06010
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- Zybina, L. D. The ordering of some endomorphisms of an ordered set with zero and unity. (Russian) 90d:06008

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- Atkinson, M. D. (with Nussbaum, D.) Sorting with powerful primitive operations. 90m:68022
- Bakalary, Jerzy K. (with Pukelsheim, Friedrich; Styan, George P. H.) Some properties of matrix partial orderings. 90b:15022
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- Compton, Kevin J. The computational complexity of asymptotic problems. I. Partial orders. 90d:03073
- Demetronics, János (with Rónyai, Lajos) Algebraic properties of crowns and fences. 90k:08003
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- Griggs, Jerrold R. (with Kleitman, Daniel) Minimum cutsets for an element of a Boolean lattice. 90k:05004
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06A12 Semilattices [see also 20M10]

- Adams, M. E. (with Gould, Matthew) A construction for pseudocomplemented semilattices and two applications. 90b:06008
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 Thakare, N. K. Symmetry in semilattices. 90m:06016
 van de Vel, M. A Helly property of arcs. 90c:06008
 Welniewicz, Bogusław On atomic join-semilattices. 90i:06007
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- Bosbach, Bruno Hyperarchimedische Teilbarkeitshalbgruppen. [Hyper-Archimedean divisibility semigroups] 90c:20055
 Chajda, Ivan Weak homomorphisms in implication algebra. (Russian and Czech summaries) 90m:08002
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 Huhn, A. P. On the representation of distributive algebraic lattices. II. 90i:06012
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 Jezek, Jaroslav (with Slavík, Václav) Free lattices over halflattices. 90m:06022
 Luo, Jiang Tao Some properties of the algebraic structure of fuzzy sets of type 2. (Chinese. English summary) 90i:03063
 Romanowska, Anna B. (with Smith, J. D. H.) On the structure of subalgebra systems of idempotent entropic algebras. 90k:08001
 — (with Smith, J. D. H.) Subalgebra systems of idempotent entropic algebras. 90k:08002
 Rowe, K. A. *see* Higgs, D. A., 90b:18009
 Salii, V. N. Partially ordered sets. Semilattices. Generalizations of lattices. (Russian) 90i:06004
 Slavík, Václav *see* Jezek, Jaroslav, 90m:06022
 Smith, J. D. H. *see* Romanowska, Anna B., 90k:08001 and 90k:08002

06A15 Galois correspondences, closure operators

- Prokop, Frank P. Neighbourhood lattices—a poset approach to topological spaces. 90c:06011
 Tolstosheina, S. V. Definability of ordered sets by a partial groupoid of closure operators. (Russian) 90c:06012

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- Krasner, Marc Abstract Galois theory and endotheory. II. 90f:08001
 Liu, Xiao Shi Operation of "interior" and regularity, normality of pointwise topology on completely distributive lattices. 90c:06015
 Skorsky, Martin Regular monoids generated by two Galois connections. 90i:20066

06A23 Complete lattices, completions

- Achache, A. Remarque sur les treillis complets pseudo-complétés. [Remarks on pseudocomplemented complete lattices] (Not in MR)
 Berni-Canani, U. (with Borceux, F.; Succì Cruciani, R.; Van den Bossche, G.) Étale maps of quantales. 90m:06017
 Borceux, F. *see* Berni-Canani, U.; et al., 90m:06017

- Calogreanu, Grigore G. Cocompact elements in algebraic lattices. 90b:06010
 Dong, Rong Sen The completion of a general Boolean lattice. (Chinese. English summary) 90f:06011
 — A necessary and sufficient condition for a homomorphism of a complete Boolean lattice to be complete. (Chinese. English summary) 90k:06010
 — Extensions of homomorphisms of Boolean lattices. (Chinese. English summary) 90m:06018
 Peng, Zu Zeng A measure on a molecular lattice. (Chinese. English summary) 90j:06009
 Succì Cruciani, R. *see* Berni-Canani, U.; et al., 90m:06017
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- Fleischer, Isidore Convergence completion of partially ordered groups. 90c:06031
 Füredi, Zoltán (with Kahn, Jeffrey N.) Dimension versus size. 90a:06003
 Greco, Gabriele H. On Raney's theorems for completely distributive complete lattices. 90b:06004
 Higgs, D. A. (with Rowe, K. A.) Nuclearity in the category of complete semilattices. 90b:18009
 Jayaram, C. A note on commutative multiplicative semilattices. 90b:06009
 Johnson, E. W. (with Johnson, Johnny A.) P -lattices as ideal lattices and submodule lattices. 90d:06024
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 Li, Chuan Xiang Reduction of hierarchical structure. 90f:05083
 Meyer, Fernand Romain (with Serra, J.) Contrasts and activity lattice. (French and German summaries) 90d:68080
 Monjardet, B. (with Wille, Rudolf) On finite lattices generated by their doubly irreducible elements. 90c:06014
 Paseka, Jan Compact convex sets, quantales and C^* -algebras. 90f:46114
 Rowe, K. A. *see* Higgs, D. A., 90b:18009
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 Simmons, Harold An escalator characterization of finite uniform dimensionality. 90f:06020
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06A99 None of the above, but in this section

- Campbell, Donald E. (with Walker, Mark) Maximal elements of weakly continuous relations. 90m:06019
 Derech, V. D. Stable quasi-orders on some semigroups of partial monotone transformations of a finite ordered set. (Russian) (see 90d:00034)
 Konstantinidou, Maria Distributive and complemented hyperlattices. (Greek summary) 90c:06013
 Leech, Jonathan Skew lattices in rings. 90d:06010
 Turinick, M. Metric variants of the Brézis-Browder ordering principle. 90m:06020
 Veinott, Arthur F., Jr. Representation of general and polyhedral subsemilattices and sublattices of product spaces. 90f:06012
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- Birkhoff, Garrett The role of order in computing. 90b:65092
 Burillo López, Pedro J. (with González, León A.) Pseudometrics associated with fuzzy relations having weak properties. 90c:03067
 Fitting, Melvin Bilattices and the theory of truth. 90i:03027
 Gensemer, Susan H. On numerical representations of semiorders. 90c:90007
 González, León A. *see* Burillo López, Pedro J., 90c:03067
 Joe, Harry Majorization, entropy and paired comparisons. 90b:62105
 Kreuzer, Alexander Klassifizierung endlicher halbgeordneter Ebenen. (English summary) [Classification of finite partially ordered planes] 90j:51016
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 Long, John J., Jr. (with Wagner, Carl G.) On the distribution of the number of optimal elements for various generalized weak orders. 90d:90007
 Skornjakov, L. A. Invertible elements of semirelatives and relatives. (Russian) 90j:08002
 Suck, Reinhard Conjointness as a derived property. 90m:92101
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06Bxx Lattices [see also 03G10]

06B05 Structure theory

- Czédli, G. (with Lengvárszky, Zs.) Two notes on independent subsets in lattices. 90c:06014
 Edelman, Paul H. (with Saks, M. E.) Combinatorial representation and convex dimension of convex geometries. 90f:06013
 Farcas, Gh. Treillis non-commutatifs de type (J). [Noncommutative lattices of type (J)] 90a:06008
 Fried, E. (with Grätzer, G.) Pasting infinite lattices. 90g:06010
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 Libkin, L. O. Separation theorems for lattices. (Hungarian summary) 90c:06010
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 Saks, M. E. *see* Edelman, Paul H., 90f:06013
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- Cegielski, Patrick The elementary theory of the natural lattice is finitely axiomatizable. 90j:03068
 Dong, Ke Cheng Graded posets and graded lattices. (Chinese. English summary) 90i:06002
 Erné, Marcel Weak distributive laws and their role in lattices of congruences and equational theories. 90j:08005

06B10 Ideals, congruence relations

- Chajda, Ivan Principal tolerances on lattices. 90j:06010
 Ezzeidin, Mahmoud Untersuchung spezieller Idealverbände. [Investigation of special ideal lattices] 90f:06014
 Grätzer, G. On the complete congruence lattice of a complete lattice with an application to universal algebra. 90d:06012
 — (with Lakser, Harry) Congruence lattices, automorphism groups of finite lattices and planarity. 90g:06011
 Lakser, Harry see Grätzer, G., 90g:06011
 Morillon, Marianne Une forme géométrique de l'axiome de l'idéal premier. [A geometric form of the prime ideal axiom] 90f:06015
 Niederle, Josef Completely meet-irreducible tolerances in distributive Noetherian lattices. 90d:06013
 Odintsov, V. A. Congruences on interval lattices. (Russian) 90f:06016
 Rav, Yehuda Semiprime ideals in general lattices. 90c:06015

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- Aninger, Karl Atomistic congruence lattices of semilattices. 90i:06006
 Bredikhin, D. A. On the simultaneous characterization of automorphism groups and congruence lattices of universal algebras. (Russian) (see 90d:00034)
 Hahn, A. P. On the representation of distributive algebraic lattices. II. 90i:06012
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 Rav, Yehuda Lattice theoretical equivalences of the ultrafilter principle. 90d:03096
 Swamy, U. Maddana (with Viswanadha Raju, D.) A note on maximal ideal spaces of distributive lattices. 90c:06018
 Viswanadha Raju, D. see Swamy, U. Maddana, 90c:06018
 Willard, Ross M_2 as a 0, 1-sublattice of $\text{Con } A$ does not force the term condition. 90a:08002
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06B15 Representation theory

Items with secondary classifications in 06B15

- Arnold, David M. Representations of partially ordered sets and abelian groups. 90j:20118
 Sauer, Norbert W. (with Stone, M. G.) Foliations and applications to structure problems. 90c:08006
 Stone, M. G. see Sauer, Norbert W., 90c:08006

06B20 Varieties of lattices

- Bergman, Clifford Nonaxiomatizability of the amalgamation class of modular lattice varieties. 90j:06011
 Idziak, Paweł M. Decision problem for relatively free Brouwerian semilattices. 90k:06011
 Igoshin, V. I. Classes of lattices and of related algebras. (Russian) 90j:06012
 Omarov, Zh. A. The variety of lattices that is determined by the Ikbalunnisa identity. 90c:06016

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- Fried, E. (with Grätzer, G.) Pasting infinite lattices. 90g:06010
 Grätzer, G. see Fried, E., 90g:06010
 Jakubík, Ján Retracts of abelian lattice ordered groups. 90h:06009

06B25 Free lattices, projective lattices, word problems [see also 03D40, 08A50, 20F10]

- Freese, Ralph Finitely presented lattices: canonical forms and the covering relation. 90b:06011
 Ježek, Jaroslav (with Slavík, Václav) Free lattices over halflattices. 90m:06022
 Slavík, Václav see Ježek, Jaroslav, 90m:06022

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- Igoshin, V. I. Classes of lattices and of related algebras. (Russian) 90j:06012

06B30 Topological lattices, order topologies [see also 06F30, 54F05, 54H12]

- Gierz, Gerhard (with Stralka, Albert R.) Modular lattices on the 3-cell are distributive. 90b:06012
 Liu, Xiao Shi The interior operator, regularity and normality of the pointwise topology on a completely distributive lattice. (Chinese. English summary) 90i:06008
 Liu, Ying Ming (with Luo, Mao Kang; Peng, Qian) Analytic and topological characterizations of the complete distributivity law. (Chinese) (Not in MR)
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 Peng, Qian see Liu, Ying Ming; et al., (Not in MR)
 Plotička, Miroslav Topologies compatible with order and separation axioms. 90h:06001
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- Forrest, Peter The problem of representing incompletely ordered doxastic systems. 90c:03019

Venugopalan, P. Priestley spaces. 90k:06012

06B35 Continuous lattices, generalizations, applications [see also 06B30, 06D10, 06F30, 18B35, 22A26, 68N10]

- Georgescu, George (with Voiculescu, Ioana) Some abstract maximal ideal-like spaces. 90b:06013
 Jung, A. \star Cartesian closed categories of domains. 90i:06009
 Venugopalan, P. Priestley spaces. 90k:06012
 Voiculescu, Ioana see Georgescu, George, 90b:06013

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- Erné, Marcel Weak distributive laws and their role in lattices of congruences and equational theories. 90j:08005
 Goldie, Charles M. (with Resnick, S. I.) Records in a partially ordered set. 90b:60140
 Hrbáček, Karel Convex powerdomains. II. 90g:68084
 Junnila, Heikki J. K. Eberlein compact spaces and continuous semilattices. 90c:54012
 Papadopoulos, Basil K. The exponential objects in TOP (a classical proof). 90d:54031
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 Wang, Guo Jun Theory of φ -minimal sets and its applications. 90c:06020

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- Cui, Hong Bin see Fan, Lei; et al., 90f:06017
 Czerwicz, Jurek Planar lattices and the slope problem. 90d:06014
 Deng, Zi Ke Uniformity on fuzzy quasi-atomic lattices. (Chinese summary) 90m:06023
 Fan, Lei (with Cui, Hong Bin; Zheng, Chong You) Direct product decomposition of molecular lattices and structure of generalized order homomorphisms. 90f:06017
 Fărcaș, Gh. Treillis non-commutatifs de type (G). [Noncommutative lattices of type (G)] 90k:06013
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 Gilman, E. A. On the problem of the abstract characterization of lattices of universal classes. (Russian) (see 90d:00034)
 Marmazeer, V. I. The group of automorphisms of the lattice of convex sublattices. (Russian. English summary) 90f:06018
 Nanda, Sudarsan Fuzzy lattice. (Not in MR)
 Nieminen, Juhani Double weak pseudocomplementarity. 90h:06002
 Ulian, Janex On a generalization of lattices. (Russian. Serbo-Croatian summary) 90j:06014
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 Wille, Rudolf Lattices in data analysis: how to draw them with a computer. 90k:06014
 Zhao, Xiao Dong Particle lattices and fuzzy particle lattices. 90f:06019
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- Ambos-Spies, K. (with Lerman, M.) Lattice embeddings into the recursively enumerable degrees. II. 90i:03047
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 Boguta, B. K. Coverings of varieties and lattice doubling. (Russian) 90m:20070
 Borgatti, Stephen P. (with Everett, Martin G.) The class of all regular equivalences: algebraic structure and computation. 90j:92041
 Cornford, James M. A local property associated with the semilattice of compactifications of a space. 90h:54030
 Dąbowski, Antoni (with Natkaniec, Tomasz) Simple examples of lattices generated by some families of functions. (Polish. English summary) 90d:26021
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 Esteve, Francesc On the structure of intuitionistic algebras with relational probabilities. 90m:03042
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 Fofanova, T. S. General lattice theory. (Russian) 90j:06001
 Forney, G. David, Jr. Coset codes. II. Binary lattices and related codes. 90f:94052
 Jakubík, Jaroslav-Studenovská, Danica On the lattice of convex subsets of a partial monounary algebra. 90h:08004
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 Murall, V. Fuzzy equivalence relations. 90a:03093
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 Piron, Constantin Recent developments in quantum mechanics. 90c:81022
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 Trillas, Enric Relational probabilities on intuitionistic lattices. 90m:03047

06Cxx Modular lattices, complemented lattices

06C05 Modular lattices, Desarguesian lattices

- Chen, Shao Jian The automorphisms of finite modular lattices. (Chinese. English summary) 90k:06015
 Day, Alan (with Jónsson, Bjarni) Non-Arguesian configurations and gluings of modular lattices. 90g:06013

- Dudek, József A polynomial characterization of nondistributive modular lattices. 90b:06015
 Ezzeidin, Mahmoud Präprimäre Verbände. [Preprimary lattices] 90k:06016
 Fried, E. (with Grätzer, G.) Pasting and modular lattices. 90g:06014
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 Grzeszczuk, Piotr (with Okniński, Jan; Puczyłowski, Edmund R.) Relations between some dimensions of modular lattices. 90j:06015
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- Bergman, Clifford Nonaxiomatizability of the amalgamation class of modular lattice varieties. 90j:06011
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 Lafuente, Julio Maximal subgroups and the Jordan-Hölder theorem. 90a:20040

06C10 Semimodular lattices, geometric lattices

- Kamara, Morike (with Schweigert, D.) Geometric correlation lattices. 90j:06016
 Mnukhin, V. B. Action of groups on lattices and the reconstruction problem. (Russian) 90a:06009
 Reuter, K. The Kurosh-Ore exchange property. 90c:06012
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 Stern, Manfred On strong semimodular lattices. III. 90c:06013
 — On complemented strong lattices. 90c:06010
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- Bachem, Achim (with Wanka, Alfred) Matroids without adjoint. 90j:05048
 Ezzeidin, Mahmoud Untersuchung spezieller Idealverbände. [Investigation of special ideal lattices] 90f:06014
 Stern, Manfred Meet-regular intervals in lattices of finite length. 90m:06021
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 Whittle, Geoff Dowling group geometries and the critical problem. 90g:51008

06C15 Complemented lattices, orthocomplemented lattices

- Chevalier, Georges Orthomodular spaces and Baer \ast -rings. 90j:06017
 Godowski, Radosław Stabilized sequences of algebras. 90d:06015
 Gross, Herbert Hilbert lattices with the extension property. 90b:06018
 Navara, Mirko (with Pták, Pavel) Almost Boolean orthomodular posets. 90b:06003
 Pták, Pavel see Navara, Mirko, 90b:06003
 Pulmannová, S. Free product of ortholattices. 90c:06017
 Roddy, Michael S. On the word problem for orthocomplemented modular lattices. 90j:06018
 Tkadlec, Josef A note on a function representation of orthomodular posets. (Russian summary) 90i:06011
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 Dvurečenskij, Anatolij States on families of subspaces of pre-Hilbert spaces. 90j:46027
 Giuntini, Roberto (with Greebling, Heinz) Toward a formal language for unsharp properties. 90j:81017
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 Keller, Karsten Sets of states and extreme points. 90c:81014
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 Kuck, Conrad \star Quantum logic is the foundation of mathematics, physics and computer-science. 90k:03020
 Morales, Pedro A noncommutative version of the Brooks-Jewett theorem. 90f:06007
 Navara, Mirko (with Rogalewicz, Vladimir) State isomorphism of orthomodular posets and hypergraphs. 90d:03134
 — A note on the axioms of quantum mechanics. (Russian and Czech summaries) 90c:81016
 — (with Rogalewicz, Vladimir) Construction of orthomodular lattices with given state spaces. 90c:81017
 Rogalewicz, Vladimir see Navara, Mirko, 90c:81017 and 90d:03134
 Rüttimann, Gottfried T. The Jordan-Hahn property. 90g:28010
 Schladler, Christian The Lebesgue decomposition of measures on finite orthomodular posets. 90g:28011
 Stern, Manfred On complemented strong lattices. 90i:06010
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06C20 Complemented modular lattices, continuous geometries

Items with secondary classifications in 06C20

- Roddy, Michael S. On the word problem for orthocomplemented modular lattices. 90j:06018

06C99 None of the above, but in this section

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- Ber, A. F. (with Nasayrov, D. A.) A representation of Stone type for modular logics. (Russian) 90g:03063
 Chajda, Ivan (with Rachůnek, Jiří) Forbidden configurations for distributive and modular ordered sets. 90g:06001
 Fofanova, T. S. General lattice theory. (Russian) 90j:06001
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06Dxx Distributive lattices

Items with secondary classifications in 06Dxx

- Draskovičová, Hilda (with Katriňák, Tibor; Kolibiar, M.) Distributive lattices, Boolean algebras and related lattices. (Russian) 90k:06001
 Katriňák, Tibor see Draskovičová, Hilda; et al., 90k:06001
 Kolibiar, M. see Draskovičová, Hilda; et al., 90k:06001

06D05 Structure and representation theory

- Boicescu, Vlad About P_2 -lattices. (see 90j:06021)
 Huhn, A. P. On the representation of distributive algebraic lattices. II. 90i:06012
 — On the representation of distributive algebraic lattices. III. 90i:06013
 Monjardet, B. (with Wille, Rudolf) On finite lattices generated by their doubly irreducible elements. 90c:06014
 Swamy, U. Maddana (with Viswanadha Raju, D.) A note on maximal ideal spaces of distributive lattices. 90c:06018
 Viswanadha Raju, D. see Swamy, U. Maddana, 90c:06018
 Wille, Rudolf see Monjardet, B., 90c:06014
 Wu, Run Heng see Zhao, Cai Kui, 90i:06014
 Zhao, Cai Kui (with Wu, Run Heng) Prime ideals and congruence relations in distributive lattices. (Chinese. English summary) 90i:06014

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- Blyth, T. S. (with Fang, Jie; Varlet, J. C.) MS-algebras arising from hat racks, double fences and double crowns. 90i:06016
 Csédl, G. (with Lengvárszky, Zs.) Two notes on independent subsets in lattices. 90c:06014
 Fang, Jie see Blyth, T. S.; et al., 90i:06016
 Grätzer, G. (with Lakser, Harry) Congruence lattices, automorphism groups of finite lattices and planarity. 90g:06011
 Huerta, Carlos C. Measure requirements on distributive lattices for Boolean algebras and topological applications. 90a:06017
 Kisielewicz, Andrzej A solution of Dedekind's problem on the number of isotone Boolean functions. 90b:06025
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06D10 Complete distributivity

- Deng, Zi Ke Quasi-atoms and complete distributivity. 90g:06015a
 — Polarity in a completely distributive complete lattice. 90g:06015b
 Dong, Rong Sen The completion of \cap -weakly complete distributive lattices. (Chinese) 90c:06019
 Fan, Tai He Product operations in the category of molecular lattices. 90d:06016
 Fawcett, Barry (with Wood, R. J.) Constructive complete distributivity. I. 90k:06017
 Greco, Gabriele H. On Raney's theorems for completely distributive complete lattices. 90b:06004
 Liang, Ji Hua Uniform structures on completely distributive lattices. (Chinese) (Not in MR)
 Liu, Xiao Shi Operation of "interior" and regularity, normality of pointwise topology on completely distributive lattices. 90c:06015
 Wang, Ge Ping A weak auxiliary order on completely distributive lattices and generalized order-homomorphisms. (Chinese. English summary) 90j:06019
 Wang, Guo Jun Theory of \mathfrak{p} -minimal sets and its applications. 90c:06020
 — Pointwise topology on completely distributive lattices. 90c:06021
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- Higgs, D. A. (with Rowe, K. A.) Nuclearity in the category of complete semilattices. 90b:18009
 Liu, Xiao Shi The interior operator, regularity and normality of the pointwise topology on a completely distributive lattice. (Chinese. English summary) 90i:06008
 — Discreteness of lattices. (Chinese) 90i:06024
 Liu, Ying Ming (with Luo, Mao Kang; Peng, Qian) Analytic and topological characterizations of the complete distributivity law. (Chinese) (Not in MR)
 Longstaff, W. E. Nonreflexive realizations of nondistributive subspace lattices. 90g:47008
 Luo, Mao Kang see Liu, Ying Ming; et al., (Not in MR)
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 Peng, Za Zeng A measure on a molecular lattice. (Chinese. English summary) 90j:06009
 Rowe, K. A. see Higgs, D. A., 90b:18009
 Weiss, Wolfgang Uniform spaces can be represented by completely distributive lattices. 90d:54059

06D15 Pseudocomplemented lattices

- Badawy, A. see El-Assar, S., 90f:06021
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- On minimal quasi-ideal elements in poe-semigroups. 90m:06029

- Merlier, Thérèse Some properties of lattice ordered Rees matrix semigroups. 90c:06029
- Murata, Kentaro Arithmetic of a commutative lattice-semigroup. 90c:06030
- On factorization of lattice-ideals in a commutative lattice-semigroup. (see 90k:20003)
- Peters, Wolfgang Berechnung der linearen involutorischen Halbgruppen sechster und siebenter Ordnung. [Computing the linear involutory semigroups of sixth and seventh order] 90d:06022
- Pusack, Martina Ordnungstreue Homomorphismen einer kommutativen Halbgruppe in $(\mathbb{R}, +, \leq)$. (English and Russian summaries) [Order-preserving homomorphisms of a commutative semigroup in $(\mathbb{R}, +, \leq)$] 90f:06029
- Reddy, Umamaheswara (with Hanumanthachari, J.) A note on maximal and minimal elements in totally ordered semirings. 90m:06030
- Törner, G. see Brungs, H.-H., 90b:06027
- Items with secondary classifications in 06F05
- Georgescu, George (with Voiculescu, Ioana) Some abstract maximal ideal-like spaces. 90b:06013
- Kobayashi, Yuji (with Saito, Tatsuhiro) Compatible orders on a free monoid. (see 90k:20003)
- Makaridina, V. A. Orderability of free idempotent semigroups. (Russian) 90d:20102
- Niefield, Susan B. see Rosenthal, Kimmo I., 90g:06017
- Rosenthal, Kimmo I. (with Niefield, Susan B.) Connections between ideal theory and the theory of locales. 90g:06017
- Saito, Tatsuhiro Naturally ordered regular semigroups with maximum inverses. 90d:20104
- see also Kobayashi, Yuji, (90k:20003)
- Voiculescu, Ioana see Georgescu, George, 90b:06013

06F10 Noether lattices

- Johnson, E. W. Self-duality and co-multiplication lattices. 90d:06023
- (with Johnson, Johnny A.) P -lattices as ideal lattices and submodule lattices. 90d:06024
- Johnson, Johnny A. see Johnson, E. W., 90d:06024
- Vilhelm, Václav Primary decompositions. (Czech. English and Russian summaries) 90g:06024

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- Niederle, Josef Completely meet-irreducible tolerances in distributive Noetherian lattices. 90d:06013
- Waterhouse, William C. Automorphisms of the Bruhat order on Coxeter groups. 90f:20044

06F15 Ordered groups [see also 20F60]

- Conrad, Paul F. (with Martinez, Jorge²) Locally finite conditions on lattice-ordered groups. 90j:06028
- Darnel, Michael R. (with Glass, A. M. W.; Rhemtulla, Akbar H.) Groups in which every right order is two-sided. 90k:06027
- (with Glass, A. M. W.) Commutator relations and identities in lattice-ordered groups. 90i:06020
- Droste, Manfred Normal subgroups and elementary theories of lattice-ordered groups. 90c:06021
- (with Giraudet, Michèle) Embeddings into simple lattice-ordered groups with different first order theories. 90j:06029
- Fleischer, Isidore Convergence completion of partially ordered groups. 90c:06031
- Giraudet, Michèle see Droste, Manfred, 90j:06029
- Glass, A. M. W. see Darnel, Michael R., 90i:06020 and 90k:06027
- Gurchenkov, S. A. On the theory of varieties of lattice-ordered groups. 90f:06030
- Harmine, Marii Sequential convergences on cyclically ordered groups. (Russian summary) 90c:06032
- Sequential convergences on lattice ordered groups. 90g:06025
- Hurd, Spencer P. Normal subgroups of periodically α -primitive ordered permutation groups. 90j:06030
- Hursey, Robert J. On nilpotent and polycyclic groups. 90k:06028
- Jakubík, Ján Convergences and complete distributivity of lattice ordered groups. (Russian summary) 90d:06025
- (with Pringerová, Gabriela) Radical classes of cyclically ordered groups. (Russian summary) 90g:06026
- On some types of kernels of a convergence I -group. 90g:06027
- Direct product decompositions of directed groups. 90g:06028
- Lexicographic factors of a linearly ordered group. 90k:06029
- Martinez, Jorge² see Conrad, Paul F., 90j:06028
- Medvedev, N. Ya. α -approximability of bounded Engel I -groups. 90d:06026
- Nilpotent lattice-ordered groups. 90b:06028
- Infinite distributivity in the lattice of varieties of I -groups. 90d:06027
- Petrova, N. L. see Todorinov, S. A., 90d:06028 and 90j:06031
- Powell, Wayne B. (with Tsinakis, Constantine) Covers of the variety of abelian I -groups. 90i:06021
- (with Tsinakis, Constantine) The failure of the amalgamation property for representable varieties of I -groups. 90h:06008
- Pringerová, Gabriela see Jakubík, Ján, 90g:06026
- Rachunek, Jiri Structure spaces of lattice ordered groups. 90i:06022
- Rhemtulla, Akbar H. see Darnel, Michael R.; et al., 90k:06027
- Todorinov, S. A. (with Petrova, N. L.) Relatively convex subgroups of α -groups. (Bulgarian. English and Russian summaries) 90j:06031
- (with Petrova, N. L.) Directionally nonorderable groups. (Russian) 90d:06028
- Tsinakis, Constantine see Powell, Wayne B., 90h:06008 and 90i:06021
- Items with secondary classifications in 06F15
- Anderson, Marlow (with Feil, Todd) ★ Lattice-ordered groups. 90b:06001
- Feil, Todd see Anderson, Marlow, 90b:06001
- Kerov, S. V. Combinatorial examples in the theory of AF-algebras. (Russian. English summary) 90j:46062

- Schmidt, Klaus D. Minimal clans: a class of ordered partial semigroups including Boolean rings and lattice-ordered groups. 90f:06032
- Tanaka, Katsumi² On the theory of ordered groups. 90d:03069
- Truss, J. K. Infinite permutation groups. I. Products of conjugacy classes. 90c:20004
- Infinite permutation groups. II. Subgroups of small index. 90c:20005

06F20 Ordered abelian groups, ordered linear spaces [see also 46A40]

- Černák, Štefan Cantor extension of an abelian cyclically ordered group. (Russian summary) 90i:06030
- Freischer, Isidore Functional representation of vector lattices. 90d:06029
- Giraudet, Michèle Cancellation and absorption of lexicographic powers of totally ordered abelian groups. 90c:06033
- Jakubík, Ján Retracts of abelian lattice ordered groups. 90h:06009
- Keller, Karsten Orthoposets of extreme points. (see 90g:28001)
- Maczyński, Maciej Generalized Riesz spaces with orthomodular basis. (see 90a:00026)

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- Anderson, D. D. (with Zafrullah, Muhammad) Weakly factorial domains and groups of divisibility. 90k:13015
- Basarab, Șerban A. Some model theory for generalized trees. 90f:03068
- Beg, Ismat see Vuza, Dan Tudor; et al., 90h:46011
- Deion, Françoise (with Lucas, François) Inclusions et produits de groupes abéliens ordonnés étudiés au premier ordre. [First-order study of inclusions and products of ordered abelian groups] 90f:03067
- Forrest, Peter The problem of representing incompletely ordered doxastic systems. 90c:03019
- Jakubík, Ján On some types of kernels of a convergence l -group. 90g:06027
- Lucas, François see Deion, Françoise, 90f:03067
- Popovici, Ioan Mircea see Vuza, Dan Tudor; et al., 90h:46011
- Powell, Wayne B. (with Tsınakis, Constantine) Covers of the variety of abelian l -groups. 90i:06021
- Tsinakis, Constantine see Powell, Wayne B., 90i:06021
- Vuza, Dan Tudor (with Popovici, Ioan Mircea; Beg, Ismat) Normal subspaces of directed vector spaces. 90h:46011
- Zafrullah, Muhammad see Anderson, D. D., 90k:13015

06F25 Ordered rings, algebras, modules (For ordered fields, see 12J15; see also 13J25, 16A86.)

- Banaschewski, B. The prime ideal theorem and representation of F -rings. 90c:06034
- Feldman, David (with Henriksen, M.) f -rings, subdirect products of totally ordered rings, and the prime ideal theorem. 90f:06031a
- see also Luxemburg, W. A. J., 90f:06031b
- Henriksen, M. see Feldman, David, 90f:06031a and Luxemburg, W. A. J., 90f:06031b
- Larson, Suzanne Pseudoprime l -ideals in a class of f -rings. 90a:06019
- Minimal convex extensions and intersections of primary l -ideals in f -rings. 90i:06023
- Luxemburg, W. A. J. A remark on a paper by D. Feldman and M. Henriksen concerning the definition of f -rings, subdirect products of totally ordered rings, and the prime ideal theorem [Nederl. Akad. Wetensch. Indag. Math. 50 (1988), no. 2, 121–126; MR 90f:06031a]. 90f:06031b
- Redfield, R. H. Dual spaces of totally ordered rings. 90a:06020
- Symatzschke, J. Stetige Elemente bedingt vollständiger l -Algebren. (English summary) [Continuous elements of conditionally complete l -algebras] 90c:06022

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- Al-Ezeh, H. (with Natsheh, M. A.; Hussein, D.) Some properties of the ring of continuous functions. 90d:54033
- Basly, M. (with Triki, A.) f -algebras in which order ideals are ring ideals. 90c:46008
- Hussein, D. see Al-Ezeh, H.; et al., 90d:54033
- Kalhof, Franz Über Stellen und Präordnungen von Ternärkörpern. (English summary) [On places and preorderings of ternary fields] 90a:51014
- Madden, James J. Pierce-Birkhoff rings. 90m:14019
- Natsheh, M. A. see Al-Ezeh, H.; et al., 90d:54033
- Triki, A. see Basly, M., 90c:46008
- Wickstead, A. W. Characterisations of semi-prime Archimedean f -algebras. 90d:46015

06F30 Topological lattices, order topologies [see also 06B30, 54F05, 54H12]

- Lawson, Jimmie D. (with Mislove, Michael; Priestley, Hilary A.) Infinite antichains and duality theories. 90h:06029
- Liu, Xiao Shi Discreteness of lattices. (Chinese) 90i:06024
- Mislove, Michael see Lawson, Jimmie D.; et al., 90h:06029
- Priestley, Hilary A. see Lawson, Jimmie D.; et al., 90h:06029

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- Aharoni, Ron (with Brochet, J.-M.; Pouzet, Maurice) The Menger property for infinite ordered sets. 90c:06030
- Borshchev, A. A. On the theory of ordered spaces. (Russian) 90c:54074
- Brochet, J.-M. (with Pouzet, Maurice) Maximal chains and cutsets of an ordered set: a Menger type approach. 90c:06030a
- see also Aharoni, Ron; et al., 90c:06030b
- Gierz, Gerhard (with Stralka, Albert R.) Modular lattices on the 3-cell are distributive. 90h:06012
- Harminc, Matúš Sequential convergences on cyclically ordered groups. (Russian summary) 90c:06032
- He, Ming Frame mappings and point separation axioms of topological spaces. 90h:54026

- Herden, Gerhard Some lifting theorems for continuous utility functions. 90k:90020
- Jakubík, Ján Convergences and complete distributivity of lattice ordered groups. (Russian summary) 90d:06025
- Liu, Ying Ming (with Luo, Mao Kang; Peng, Qian) Analytic and topological characterizations of the complete distributivity law. (Chinese) (Not in MR)
- Luo, Mao Kang see Liu, Ying Ming; et al., (Not in MR)
- Maška, R. Turinici's fixed point theorem and the axiom of choice. 90i:04002
- Neumann Lara, V. (with Wilson, Richard Gordon) When is a LOTS densely orderable? 90a:54083
- Peng, Qian see Liu, Ying Ming; et al., (Not in MR)
- Plóšica, Miroslav Topologies compatible with order and separation axioms. 90h:06001
- Pouzet, Maurice see Brochet, J.-M., 90c:06030a and Aharoni, Ron; et al., 90c:06030b
- Prokop, Frank P. Convergence in neighbourhood lattices. 90k:54006
- Stabakis, J. N. Embeddings of a poset into cut systems of its directed subsets. 90g:06008
- Stralka, Albert R. see Gierz, Gerhard, 90h:06012
- Wang, Guo Jun Pointwise topology on completely distributive lattices. 90c:06021
- Wilson, Richard Gordon see Neumann Lara, V., 90a:54083

06F99 None of the above, but in this section

- Bosbach, Bruno Lattice ordered binary systems. 90k:06031
- Konstantinidou, Maria Les résiduels généralisés des éléments v -irréductibles dans les hypergroupes strictement réticulés. [Generalized residuals of v -irreducible elements in strictly lattice-ordered hypergroups] 90c:06037
- Certaines conditions d'existence des résiduels généralisés. (English and Italian summaries) [Some existence conditions for generalized residuals] 90c:06036
- (with Serafimidis, K.) Sur les filets des hypergroupes canoniques strictement réticulés. (English summary) [Threads of strictly lattice-ordered canonical hypergroups] 90c:06035
- Liu, Shao Xue The isomorphism problem for partially ordered set algebras. (Chinese. English summary) 90m:06031
- Paseka, Jan Connectivity in quantales. 90a:06021
- Schmidt, Klaus D. Minimal clans: a class of ordered partial semigroups including Boolean rings and lattice-ordered groups. 90f:06032
- Serafimidis, K. see Konstantinidou, Maria, 90c:06035
- Items with secondary classifications in 06F99
- Kang, Byung Gai (with Park, Sehe) On generalized ordering principles in nonlinear analysis. 90m:54039
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- Rödl, V. (with Winkler, Peter M.) A Ramsey-type theorem for orderings of a graph. 90g:05135
- Rüttimann, Gottfried T. The approximate Jordan-Hahn decomposition. 90m:46115
- Stoughton, Allen ★ Fully abstract models of programming languages. 90d:68051
- Toffalori, Carlo p - h_0 -categorical lattice-ordered structures. 90c:03037
- Winkler, Peter M. see Rödl, V., 90g:05135

08-XX General mathematical systems

08-01 Elementary exposition; textbooks

- Ihringer, Thomas ★ Allgemeine Algebra. (German) [Universal algebra] 90b:08001
- Zamyatin, A. P. ★ Многообразия с ограничениями на решетку конгруэнций. (Russian) [Varieties with restrictions on the congruence lattice] 90c:08001

08Axx Universal algebra [see also 03C05]

Items with secondary classifications in 08Axx

- Ihringer, Thomas ★ Allgemeine Algebra. (German) [Universal algebra] 90b:08001

08A02 Relational systems, laws of composition

- Dai, An Shun Probability inner product and inner product. (Chinese summary) 90b:08002
- Golei, I. A common fixed point theorem in probabilistic metric space and its applications. (Romanian summary) 90c:08002
- On some common fixed point theorems for a pair of mappings on probabilistic metric spaces. (Romanian summary) (see 90d:00043)
- Khovanov, N. V. The universal form of relational systems. 90c:08001

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- Cai, Chang Lin Convergence theorems for a class of probabilistic bounded sequences in probabilistic metric spaces. (Chinese. English summary) 90j:54043
- Chamola, K. P. Fixed points of mappings satisfying a new contraction condition in random normed spaces. 90a:47140
- Che, Su Bing see Zhang, Shi Sheng, 90i:54106
- Craig, R. (with Pales, Z.) The associativity equation revisited. 90g:39019
- Dedeić, R. (with Sarapa, N.) On common fixed point theorems for commuting mappings on Menger spaces. (Serbo-Croatian summary) 90a:54106
- (with Sarapa, N.) A common fixed point theorem for three mappings on Menger spaces. 90j:54045
- Dimri, R. C. General fixed point theorems in Menger spaces. 90f:54066
- Ding, Xie Ping Common fixed points for nonexpansive type mappings in convex and probabilistic convex metric spaces. (Serbo-Croatian summary) 90c:54027

- Fang, Jin Xuan Fixed-point theorems for expansive mappings in PM-spaces. (Chinese. English summary) 90b:54053
- A fixed point theorem for Φ -contractive mappings in probabilistic metric spaces. (Chinese. English summary) 90a:54108
- Guo, Jin Li see Zhang, Shi Sheng, 90b:46086
- Hadžić, Olga Fixed point theorems for multivalued mappings in probabilistic metric spaces with a convex structure. (Serbo-Croatian summary) 90a:47143
- Fixed point theorems for multivalued mappings in some classes of fuzzy metric spaces. 90d:54083
- Harnau, Walter Ein verallgemeinerter Relationenbegriff für die Algebra der mehrwertigen Logik. II. Relationenpaare. [A generalized concept of relations for the algebra of many-valued logic. II. Pairs of relations] 90b:03093a
- Ein verallgemeinerter Relationenbegriff für die Algebra der mehrwertigen Logik. III. Beweis. [A generalized concept of relations for the algebra of many-valued logic. III. Proof] 90b:03093b
- Huang, Nan Jing see Zhang, Shi Sheng, 90j:54050
- Kang, Shi Kun (with Xiong, Tian Xiang) Convergence theorems for the generalized quasi-Picard iteration of a contraction mapping in probabilistic metric spaces. (Chinese. English summary) 90k:54058
- see also Zhang, Shi Sheng; et al., 90b:46043; Xiong, Tian Xiang, 90k:54042; Zhang, Shi Sheng, 90k:54043; 90m:46033 and (Not in MR)
- Kent, D. C. (with Richardson, Gary D.) Ordered probabilistic metric spaces. 90b:54022
- Páles, Z. see Craig, R., 90g:39019
- Pant, B. D. see Singh, S. L., 90d:54095 and 90b:54059
- Powers, Robert C. Order automorphisms of spaces of nondecreasing functions. 90b:46042
- Qian, Zi Qiang (with Yan, Ge Xing) Topological properties of Menger spaces. (Chinese. English summary) 90g:54025
- Ren, Zhi Ping see Zhang, Jun Li, 90j:54049
- Richardson, Gary D. see Kent, D. C., 90b:54022
- Sarapa, N. see Dedelić, R., 90a:54106 and 90j:54045
- Schweizer, B. (with Sherwood, H.; Tardiff, R. M.) Contractions on probabilistic metric spaces: examples and counterexamples. 90i:54103
- Sherwood, H. see Schweizer, B.; et al., 90i:54103
- Singh, S. L. (with Pant, B. D.) Coincidence and fixed point theorems for a family of mappings of Menger spaces and extension to uniform spaces. 90d:54095
- (with Pant, B. D.) Common fixed points of a family of mappings in Menger and uniform spaces. 90b:54059
- Stojaković, Mila A common fixed point theorems in probabilistic metric spaces and its applications. (Serbo-Croatian summary) 90d:54097
- Tardiff, R. M. see Schweizer, B.; et al., 90i:54103
- Xiong, Tian Xiang (with Kang, Shi Kun) Convergence rate estimation of Picard iteration sequences for a class of contraction mappings in probabilistic metric spaces. (Chinese. English summary) 90k:54042
- see also Kang, Shi Kun, 90k:54058
- Yan, Ge Xing see Qian, Zi Qiang, 90g:54025
- Yang, Ze Jiang see Zhang, Shi Sheng; et al., 90b:46043 and 90m:46033
- Ying, Ming Sheng On a class of noncausal triangle functions. 90b:60019
- Yoo, Zhao Yong (with Zhu, Lin Hu) Linear topological properties of probabilistic normed spaces. (Chinese. English summary) 90b:46023
- Zhang, Jun Li (with Ren, Zhi Ping) Applications of fixed point theorems for abstract G-distance spaces to probabilistic metric spaces. (Chinese. English summary) 90j:54049
- Zhang, Shi Sheng (with Kang, Shi Kun) Metrization problems for probabilistic metric spaces and their applications. (Chinese. English summary) 90k:54043
- (with Kang, Shi Kun) Fixed point theorems for contractive mappings on probabilistic metric spaces. (Chinese. English summary) (Not in MR)
- (with Che, Su Bing) The metrization of probabilistic metric spaces and fixed points. (Chinese. English summary) 90i:54106
- (with Kang, Shi Kun; Yang, Ze Jiang) On the theory of probabilistic inner product spaces. I. (Chinese summary) 90b:46043
- (with Kang, Shi Kun; Yang, Ze Jiang) On the theory of probabilistic inner product spaces. II. (Chinese summary) 90m:46033
- (with Huang, Nan Jing) On the generalized 2-metric spaces and probabilistic 2-metric spaces with applications to fixed point theory. 90j:54050
- (with Guo, Jin Li) Probability integrals, Gateaux differentials and the Schauder principle in probabilistic normed linear spaces. (Chinese. English summary) 90i:46086
- Zhao, Zhen Fan Linear operators in M-PN spaces. (Chinese. English summary) 90g:47084
- Zhu, Lin Hu see Yoo, Zhao Yong, 90b:46023

08A05 Structure theory

- Lin, Yi¹ On inverse systems of general systems. (Not in MR)
- Militz, Rainer On interpolation properties appearing in generalisations of Jacobson's density theorem. 90b:08001
- Szász, Carol E-Strukturen. (Romanian summary) [E-structures] (see 90m:00044)

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- Behrendt, Gerhard Equivalence systems derived from partial orders. 90b:06002
- Kisielewicz, Andrzej Marczewski's problem on algebras with bases of different cardinalities—solutions and generalizations. (Russian summary) 90d:08003
- Rav, Yehuda Subdirect decomposition of rings and the axiom of choice. 90d:04005
- Shneperman, L. B. On the semigroup of reflexive linear relations. (Russian) 90i:20069
- Zil'ber, B. I. Hereditarily transitive groups and quasi-Urbanik structures. (Russian) 90a:03052

08A30 Subalgebras, congruence relations

- Almeida, Jorge Residually finite congruences and quasi-regular subsets in uniform algebras. 90c:08001
- Bredikhin, D. A. On the simultaneous characterization of automorphism groups and congruence lattices of universal algebras. (Russian) (see 90d:00034)

- Chajda, Ivan (with Pondělíček, Bedřich) Algebras with tolerance extension property in 0. 90a:08001
- On Grätzer's problem of binary 1-step congruence schemes. 90j:08001
- Denecke, Klaus see Reschke, Marlies; et al., 90c:08004
- Gould, Victoria (with Wild, Marcel) Every Hamiltonian variety has the congruence extension property—a short proof. 90d:08001
- Lüders, Otfried see Reschke, Marlies; et al., 90c:08004
- Niederle, Josef Conditions for transitive principal tolerances. 90c:08003
- Pinus, A. G. On quasimodular algebras. (Russian) 90b:08003
- Pondělíček, Bedřich see Chajda, Ivan, 90a:08001
- Reschke, Marlies (with Lüders, Otfried; Denecke, Klaus) Kongruenzdistributivität, Kongruenzvertauschbarkeit und Kongruenzmodularität zweielementiger Algebren. (English and Russian summaries) [Congruence distributivity, congruence permutability, and congruence modularity of two-element algebras] 90c:08004
- Romanowska, Anna B. (with Smith, J. D. H.) On the structure of subalgebra systems of idempotent entropic algebras. 90k:08001
- (with Smith, J. D. H.) Subalgebra systems of idempotent entropic algebras. 90k:08002
- Šetelja, Branimir see Vojvodić, Gradimir, 90c:08005
- Smith, J. D. H. see Romanowska, Anna B., 90k:08001 and 90k:08002
- Tardos, Gábor Finitely generated pseudosimple algebras. 90g:08001
- Uroșca, C. Quelques propriétés des congruences dans les produits directs des algèbres universelles. (Romanian summary) [Some properties of congruences in direct products of universal algebras] (see 90d:00043)
- Valeriote, Matthew A. Finite simple abelian algebras are strictly simple. 90d:08002
- Vojvodić, Gradimir (with Šetelja, Branimir) On CEP and CIP in the lattice of weak congruences. 90c:08005
- Wild, Marcel see Gould, Victoria, 90d:08001
- Willard, Ross M_0 as a 0, 1-sublattice of $\text{Con } A$ does not force the term condition. 90a:08002
- Zelinka, Bohdan Tolerances of polyunary algebras. 90a:08003

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- Bairamov, R. A. see Feizullayev, R. B.; et al., 90g:08002
- Chajda, Ivan Principal tolerances on lattices. 90j:06010
- Dada, Jaromír Fraser-Horn identities can be written in two variables. 90d:08009
- Mal'cev conditions for directly decomposable compatible relations. 90i:08006
- Dzhabbarzade, V. M. see Feizullayev, R. B.; et al., 90g:08002
- Esteve, Francesc On the structure of intuitionistic algebras with relational probabilities. 90m:03042
- Feizullayev, R. B. (with Bairamov, R. A.; Dzhabbarzade, V. M.) Simplified recognition of the functional completeness of an algebra with restrictions on the generated variety. 90g:08002
- Grätzer, G. On the complete congruence lattice of a complete lattice with an application to universal algebra. 90d:06012
- Pondělíček, Bedřich Direct decomposability of tolerances and congruences on semigroups. 90a:20128
- Sankappanavar, Hanamantagouda P. Pseudocomplemented and almost pseudocomplemented Ockham algebras: principal congruences. 90c:06024
- Zamyatin, A. P. * Многообразия с ограничениями на решетку конгруэнций. (Russian) [Varieties with restrictions on the congruence lattice] 90c:08001

08A35 Automorphisms, endomorphisms

- Chajda, Ivan Weak homomorphisms in implication algebra. (Russian and Czech summaries) 90m:08002
- Krasner, Marc Abstract Galois theory and endotheory. II. 90f:08001
- Sauer, Norbert W. (with Stone, M. G.) Foliations and applications to structure problems. 90c:08006
- Schultz-Helnecke, B. Zur Vollständigkeit der induktiven Gruppoide der partiellen Automorphismen von Algebren. (English summary) [On the completeness of inductive groupoids of partial automorphisms of algebras] 90i:08001
- Stone, M. G. see Sauer, Norbert W., 90c:08006

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- Adams, M. E. (with Gould, Matthew) A construction for pseudocomplemented semilattices and two applications. 90b:06008
- (with Koubek, V.; Sichler, J.) Isomorphism universal varieties of Heyting algebras. 90i:06015
- (Bonnet, Robert) see Handbook: Boolean algebras, 90k:06003
- Bouhoyl, Hilaire Duality of endomorphisms of a universal algebra. (Russian) 90d:08010
- Bredikhin, D. A. On the simultaneous characterization of automorphism groups and congruence lattices of universal algebras. (Russian) (see 90d:00034)
- Gould, Matthew see Adams, M. E., 90b:06008
- Koubek, V. see Adams, M. E.; et al., 90i:06015
- (Monk, J. Donald) see Handbook: Boolean algebras, 90k:06003
- Sichler, J. see Adams, M. E.; et al., 90i:06015
- Simmons, Harold An escalator characterization of finite uniform dimensionality. 90f:06020
- Zil'ber, B. I. Hereditarily transitive groups and quasi-Urbanik structures. (Russian) 90a:03052

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- Handbook:
Boolean algebras ★ Handbook of Boolean algebras. Vol. 2. 90k:06003

08A40 Operations, polynomials, primal algebras

- Bairamov, R. A. see Feizullayev, R. B.; et al., 90g:08002
- Demetrescu, János (with Mal'tsev, I. A.) The structure of the Burle clone on a three-element set. (Russian. English summary) 90i:08002
- (with Rónyai, Lajos) Algebraic properties of crowns and fences. 90k:08003

- Demecke, Klaus Eine Charakterisierung der funktionalen Vollständigkeit in kongruenzvertauschbaren Varietäten durch Hyperidentitäten. [A characterization of functional completeness in congruence-permutable varieties by hyperidentities] 90h:08002
- Dudek, József Polynomials in idempotent commutative groupoids. 90h:08003
- The unique minimal clone with three essentially binary operations. 90m:08003
- Dzhabbarzade, V. M. *see* Fezilaev, R. B. et al., 90g:08002
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- Fezilaev, R. B. (with Bairamov, R. A.; Dzhabbarzade, V. M.) Simplified recognition of the functional completeness of an algebra with restrictions on the generated variety. 90g:08002
- Haddad, Lucien (with Rosenberg, Ivo G.) Un intervalle booléen de clones sur un univers fini. (English summary) [A Boolean interval of clones on a finite universe] 90c:08007
- Maximal partial clones determined by quasi-diagonal relations. (German and Russian summaries) 90k:08004
- Hazan, Simone TC operations and Latin bricks. 90k:08005
- Kisielewicz, Andrzej Marczewski's problem on algebras with bases of different cardinalities—solutions and generalizations. (Russian summary) 90d:08003
- Ternary clones: a problem of Fajtlowicz. 90d:08004
- Lakser, Harry Finitely generated clones of terms. 90d:08005
- Ma'itsev, I. A. *see* Demetrevica, János, 90i:08002
- Ramalho, Margarita Polynomially equivalent varieties of algebras. (Portuguese) 90h:08005
- Rényai, Lajos *see* Demetrevica, János, 90i:08003
- Rosenberg, Ivo G. *see* Haddad, Lucien, 90c:08007
- Szekely, Z. On maximal clones of co-operations. 90i:08003
- Items with secondary classifications in 08A40
- Bergman, George M. Embedding arbitrary algebras in groups. 90a:20049
- Berman, Joel Finite algebras with large free spectra. 90c:08008
- Dudek, József A polynomial characterization of nondistributive modular lattices. 90h:06015
- Haddad, Lucien (with Rosenberg, Ivo G.) Maximal partial clones determined by the reflexive relations. 90k:08006
- Lapehov, S. A. Predicate transformations in k -valued logic. 90a:03025
- Las, Dietlinde Über abgeschlossene Teilmengen von $P_{1,2}$. (English and Russian summaries) [On closed subsets of $P_{1,2}$] 90c:03023
- Über partielle Funktionenalgebren. [On partial function algebras] 90j:03038
- Movsisyan, Yu. M. Algebras and clones. (Russian. Armenian summary) 90k:08014
- Rosenberg, Ivo G. *see* Haddad, Lucien, 90c:08006
- Schröder, Bert Über abgeschlossene Mengen von linearen Funktionen in P_2 (p prime, $p > 2$). [On closed sets of linear functions in P_2 (p prime, $p > 2$)] 90b:03027
- Shapiro, Jack S. Finite algebras with abelian properties. 90b:08011
- Willard, Ross M_n as a 0, 1-sublattice of $\text{Con } A$ does not force the term condition. 90a:08002

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- Epanchintsev, V. I. (with Kukin, G. P.) Higman quasivarieties. (Russian) 90c:08008
- Idziak, Paweł M. Varieties with decidable finite algebras. I. Linearity. 90d:08006a
- Varieties with decidable finite algebras. II. Permutability. 90d:08006b
- Kukin, G. P. *see* Epanchintsev, V. I., 90c:08008
- Items with secondary classifications in 08A50
- Dehornoy, Patrick Sur la structure des gerbes libres. (English summary) [On free distributive groupoids] 90j:20146
- Haddad, Lucien (with Rosenberg, Ivo G.) Maximal partial clones determined by the reflexive relations. 90k:08006
- Pedersen, John Free products and the word problem. 90a:08005
- Roddy, Michael S. On the word problem for orthocomplemented modular lattices. 90j:06018
- Rosenberg, Ivo G. *see* Haddad, Lucien, 90k:08006

08A55 Partial algebras

- Ersev, A. E. Prototype completeness of classes of partial groupoids. (Russian) 90d:08007
- Haddad, Lucien (with Rosenberg, Ivo G.) Maximal partial clones determined by the reflexive relations. 90k:08006
- Jakubčíková-Studenová, Danica Convex subsets of partial monounary algebras. 90c:08002
- On the lattice of convex subsets of a partial monounary algebra. 90h:08004
- Jarzembski, Grzegorz Weak varieties of partial algebras. 90c:08003
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- Burmeister, Peter (with Wojdyła, Bolesław) A category theoretical background for homomorphism theorems. 90m:18003
- Craig, William Logical partial functions and extensions of equational logic. 90i:03034
- Ehanks, B. R. (with Kannappan, P.; Ng, C. T.) Recursive inset entropies of multiplicative type on open domains. 90a:39013
- Haddad, Lucien Maximal partial clones determined by quasi-diagonal relations. (German and Russian summaries) 90k:08004
- Herrlich, Horst *see* Adámek, Jiří et al., 90b:18008
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- Ng, C. T. *see* Ehanks, B. R.; et al., 90a:39013
- Rosický, J. *see* Adámek, Jiří et al., 90b:18008
- Tolstosheina, S. V. Definability of ordered sets by a partial groupoid of closure operators. (Russian) 90c:06012
- Wojdyła, Bolesław *see* Burmeister, Peter, 90m:18003

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- Adams, M. E. (with Sichler, J.) Homomorphisms of unary algebras with a given quotient.

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- Bedürftig, Thomas Another characterization of the natural numbers. 90c:08004
- Kalla, Cornelia Covering relation in the language of mono-unary algebras with at most one constant symbol. 90c:08005
- Khusainov, B. M. The algorithmic dimension of unars. 90d:08006
- Lex, Wilfried Remarks on acts and the lattice of their torsion theories. 90c:08006
- Novotný, Jiří Morphisms of a certain class of monounary algebras. (Russian summary) 90h:08006
- Sichler, J. *see* Adams, M. E., 90m:08004
- Items with secondary classifications in 08A60
- Bordalo, G. A duality between unary algebras and their subuniverse lattices. 90m:06025
- Daderkin, D. O. On a class of unoids. (see 90k:68007)
- Jakubčíková-Studenová, Danica Convex subsets of partial monounary algebras. 90c:08002
- On the lattice of convex subsets of a partial monounary algebra. 90h:08004
- Ryaskin, A. N. The number of models for complete theories of unars. (Russian) 90d:03061

08A65 Infinitary algebras

- Items with secondary classifications in 08A65
- Almeida, Jorge The algebra of implicit operations. 90c:08007
- Diener, Karl-Heinz Two new algebraic equivalents to the axiom of choice. 90c:04005
- Grätzer, G. On the complete congruence lattice of a complete lattice with an application to universal algebra. 90d:06012

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- Both, N. (with Purdea, I.) Independence in power algebra of an universal algebra. 90m:08006c
- *see also* Purdea, I., 90m:08006a and 90m:08006b
- Burtman, M. I. *see* Fezilaev, R. B., 90m:08005
- Di Nola, Antonio (with Gerla, Giangiacomo) Lattice valued algebras. 90h:08005
- Fezilaev, R. B. (with Burtman, M. I.) Densely embedded δ -ideals of the Menger algebra of multiple linear functions. (Russian. English and Azerbaijani summaries) 90m:08005
- Gerla, Giangiacomo *see* Di Nola, Antonio, 90h:08005
- Hu, Qing Ping Some remarks on universal algebras. II. (Chinese. English summary) 90i:08004
- Lewin, Renato A. Involutions defined by monadic terms. 90i:08002
- Purdea, I. (with Both, N.) Relations in power algebra. 90m:08006a
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- *see also* Both, N., 90m:08006c
- Skornyakov, L. A. Invertible elements of semirelatives and relatives. (Russian) 90i:08002
- Items with secondary classifications in 08A99
- Arakelyan, A. A. On the existence of solutions of decomposable relations. (Russian. Armenian summary) 90i:50003
- Bhattacharya, D. K. On pararing. 90f:17006
- Bai, D. B. (with Mavlyanov, A. V.) Mutual derivability of the operations of program algebras. II. 90k:68103
- Choban, M. M. The theory of stable metrics. 90j:54037
- Craşner, Jerzy The G -undistinguishability criterion. 90i:03032
- Congruences and similarities of physical relational systems. 90i:03033
- Dehornoy, Patrick Free distributive groupoids. 90j:20135
- Deretasky, Tatiana On existence of AIP neofields of odd order. 90j:12021
- Gerber, G. K. A nil radical for Ω -groups. 90k:20109
- Godowski, Radosław Stabilized sequences of algebras. 90d:06015
- Kasymov, N. Kh. Algebras with residually finite positively presented expansions. (Russian) 90m:03077
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- Mavlyanov, A. V. *see* Bai, D. B., 90k:68103
- Orlicki, Andrzej Strong reducibilities of enumerations and partial enumerated algebras. 90m:03078a
- Correction to: "Strong reducibilities of enumerations and partial enumerated algebras". 90m:03078b
- Riedel, Herbert H. J. Existentially closed algebras and Boolean products. 90c:03027
- Romanowska, Anna B. (with Smith, J. D. H.) Support functions and ordinal products. 90i:52006
- Salimov, F. I. A family of distribution algebras. 90h:68088
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- Stoughton, Allen ★ Fully abstract models of programming languages. 90d:68051
- Topencharov, Vladimir V. Structures algébriques n -aires généralisant les catégories. [n -ary algebraic structures generalizing categories] 90c:18005
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08Bxx Varieties

08B05 Equational logic, Mal'cev (Mal'tsev) conditions

- Almeida, Jorge The algebra of implicit operations. 90c:08007
- Bajcsz, Tamás (with McNulty, George; Szendrei, Ágnes) Lyndon's groupoid is not inherently nonfinitely based. 90m:08007
- Baker, Kirby A. (with McNulty, George; Werner, Heinrich) Shift-automorphism methods for inherently nonfinitely based varieties of algebras. 90a:08004
- Beidar, K. I. (with Glavatskii, S. T.; Mikhailév, A. V.) Varieties of topological Ω -groups. (Russian) 90k:08007
- Chajda, Ivan (with Duda, Jaromír) Varieties satisfying ideal equalities. (Russian summary) 90i:08005

- Chekova, Polya *see* Popov, Angel, 90b:08010
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- Graczyńska, Ewa Regular equations and unification theory. 90f:08003
- On connections between identities and hyperidentities. 90g:08003
- On a problem of bases for the regular extension of varieties of algebras. 90f:08004
- Hébert, Michel (with McKenzie, R. N.; Weaver, G. E.) Two definability results in the equational context. 90b:08007
- Kemer, A. R. Finite basability of identities of associative algebras. (Russian) 90b:08008
- McKenzie, R. N. *see* Hébert, Michel; et al., 90b:08007
- McNulty, George *see* Baker, Kirby A.; et al., 90a:08004 and Bajusz, Tamás; et al., 90m:08007
- Mikhailov, A. V. *see* Beidar, K. I.; et al., 90i:08007
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- Plonka, J. On varieties of algebras defined by identities of some special forms. 90j:08003
- Popov, Angel (with Chekova, Polya) Varieties of associative algebras with identity whose lattice of subvarieties is distributive. (Russian. English summary) 90b:08010
- Füschel, Reinhard Graph varieties containing Murskii's groupoid. 90f:08005a
- The equational logic for graph algebras. 90f:08005b
- Shapiro, Jack S. Finite algebras with abelian properties. 90b:08011
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- Items with secondary classifications in 08B05
- Bairamov, R. A. *see* Fetruilaev, R. B.; et al., 90g:08002
- Blyth, T. S. (with Noor, A. S. A.; Varlet, J. C.) Equational bases for subvarieties of double MS-algebras. 90b:06020
- Craig, William Logical partial functions and extensions of equational logic. 90i:03034
- Denecke, Klaus Eine Charakterisierung der funktionalen Vollständigkeit in kongruenzver-tauschbaren Varietäten durch Hyperidentitäten. [A characterization of functional completeness in congruence-permutable varieties by hyperidentities] 90h:08002
- Dudek, József (with Kisilewicz, Andrzej) On finite models of regular identities. 90m:03059
- Dzhabbarzade, V. M. *see* Fetruilaev, R. B.; et al., 90g:08002
- Fetruilaev, R. B. (with Bairamov, R. A.; Dzhabbarzade, V. M.) Simplified recognition of the functional completeness of an algebra with restrictions on the generated variety. 90g:08002
- Kemer, A. R. Asymptotic basis of identities of algebras with unities from the variety $\text{Var}(M_2(F))$. (Russian) 90j:16032
- Kisilewicz, Andrzej *see* Dudek, József, 90m:03059
- Mishchenko, S. P. Solvable subvarieties of a variety generated by a Witt algebra. 90b:17021
- Noor, A. S. A. *see* Blyth, T. S.; et al., 90b:06020
- Rautenberg, Wolfgang Axiomatization of semigroup consequences. 90m:03057
- Romanowska, Anna B. (with Smith, J. D. H.) On the structure of subalgebra systems of idempotent entropic algebras. 90k:08001
- (with Smith, J. D. H.) Subalgebra systems of idempotent entropic algebras. 90k:08002
- Smith, J. D. H. *see* Romanowska, Anna B., 90k:08001 and 90k:08002
- Varlet, J. C. *see* Blyth, T. S.; et al., 90b:06020
- Volkov, M. V. The finite basis property of varieties of semigroups. (Russian) 90b:20091
- Wismath, Shelly L. Hyperidentities for some varieties of semigroups. 90i:20062
- Zaitsev, M. V. Matrix representations of infinite-dimensional Lie algebras. 90f:17033
- Zamyatin, A. P. ★ Многообразие с ограничениями на решетку конгруэнций. (Russian) [Varieties with restrictions on the congruence lattice] 90c:08001

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- Bergman, Clifford Another consequence of AP in residually small, congruence modular varieties. 90i:08007
- (with McKenzie, R. N.) On the relationship of AP, RS and CEP in congruence modular varieties. II. 90f:08006
- Denecke, Klaus Kongruenzregularität und p -determinierte Kongruenzen in Varietäten, die von zweielementigen Algebren erzeugt werden. [Congruence regularity and p -determined congruences in varieties which are generated by two-element algebras] 90f:08007
- McKenzie, R. N. *see* Bergman, Clifford, 90f:08006
- Pinus, A. G. Congruence-distributive varieties of algebras. (Russian) 90f:08008
- Elementary theory of epimorphism skeletons of congruence-distributive varieties. (Russian) 90j:08004

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- Izdiak, Paweł M. Varieties with decidable finite algebras. I. Linearity. 90d:08006a
- Varieties with decidable finite algebras. II. Permutability. 90d:08006b
- Weese, Martin Undecidable extensions of the theory of Boolean algebras. (see 90k:06004)
- Zamyatin, A. P. ★ Многообразие с ограничениями на решетку конгруэнций. (Russian) [Varieties with restrictions on the congruence lattice] 90c:08001

08B15 Lattices of varieties

- Erdő, Marcel Weak distributive laws and their role in lattices of congruences and equational theories. 90j:08005
- Pinus, A. G. Coverings in epimorphism skeletons of varieties of algebras. 90k:08008
- Vernikov, B. M. (with Volkov, M. V.) Letter to the editor. Remark on: "Dualisms in lattices of varieties of associative rings" [Ural. Gos. Univ. Mat. Zap. 13 (1984), no. 4 Issled. Algebr. Sist., 11–38; MR 87b:08017]. (Russian) 90b:08012
- Volkov, M. V. *see* Vernikov, B. M., 90b:08012

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- Graczyńska, Ewa On connections between identities and hyperidentities. 90g:08003
- On a problem of bases for the regular extension of varieties of algebras. 90f:08004

- Hall, T. E. (with Johnston, K. G.) The lattice of pseudovarieties of inverse semigroups. 90f:20090
- Johnston, K. G. *see* Hall, T. E., 90f:20090
- Trotter, P. G. Subdirect decompositions of the lattice of varieties of completely regular semigroups. 90b:20088
- Vernikov, B. M. Dualities in lattices of semigroup varieties. 90b:20090
- Volkov, M. V. Semigroup varieties with a modular lattice of subvarieties. (Russian) 90k:20100
- Weese, Martin Decidable extensions of the theory of Boolean algebras. (see 90k:06004)
- Wismath, Shelly L. Hyperidentities for some varieties of semigroups. 90i:20062

08B20 Free algebras

- Berman, Joel Finite algebras with large free spectra. 90e:08008
- Hébert, Michel Generators, indecomposables and free algebras. 90e:08009
- Johnson, David Lawrence (with Kim, A. C.) Free Fibonacci algebras. 90i:08008
- Kim, A. C. *see* Johnson, David Lawrence, 90i:08008
- Self, Steven A note on free algebras of discriminator algebras. 90k:08009
- Žembery, Ivan Structure of free algebras. 90k:08010

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- Aragane, Kenichi *see* Tabata, Hiroyoshi, (90e:20002)
- Bedürftig, Thomas Another characterization of the natural numbers. 90e:08004
- Choban, M. M. General conditions for the existence of free objects. (Russian. English summary) 90m:18004
- Cirulis, Jānis Two generalizations of the notion of a polyadic algebra. 90g:03064
- Dudek, József Polynomials in idempotent commutative groupoids. 90h:08003
- Guzmán, Fernando (with Squier, Craig C.) The algebra of conditional logic. 90m:03107
- Hébert, Michel Sur les algèbres libres pour les classes axiomatiques. (English summary) [Free algebras for axiomatic classes] 90i:08010
- Jarzębski, Grzegorz Lattices of free extensions in categories of partially algebraic structures. 90e:18006
- Manevitz, Larry M. (with Rowen, Louis Halle) Freedom via forcing: uniform construction of relatively free or generic structures. 90k:03030
- Pedersen, John Free products and the word problem. 90a:08005
- Rowen, Louis Halle *see* Manevitz, Larry M., 90k:03030
- Squier, Craig C. *see* Guzmán, Fernando, 90m:03107
- Tabata, Hiroyoshi (with Aragane, Kenichi) Connections between the free structures and the structures provided by McNulty. (see 90e:20002)
- Zamyatin, A. P. ★ Многообразие с ограничениями на решетку конгруэнций. (Russian) [Varieties with restrictions on the congruence lattice] 90c:08001

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- Gardner, B. J. Plonka-type sums over free products. 90i:08009
- Izdiak, Paweł M. The decision problem for finite algebras from arithmetical varieties with equationally definable principal congruences. 90b:08013
- Pedersen, John Free products and the word problem. 90a:08005
- Plonka, J. On some decomposition of the sum of a direct system of algebras into a subdirect product. 90k:08011

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- Bergman, Clifford Another consequence of AP in residually small, congruence modular varieties. 90i:08007
- (with McKenzie, R. N.) On the relationship of AP, RS and CEP in congruence modular varieties. II. 90f:08006
- McKenzie, R. N. *see* Bergman, Clifford, 90f:08006
- Vachuska, Colleen Identities on free products of bands. 90d:20103

08B30 Injectives, projectives

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- Meskh, V. Yu. Injectively complete varieties of Heyting algebras with a regular involution. (Russian) 90e:06022

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- Drenski, Veselin S. Extremal varieties of algebras. I. (Russian) 90e:08010
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- Grätzer, G. (with Lakser, Harry) Identities for globals (complex algebras) of algebras. 90k:08012
- Heindorf, Lutz A note on irredundant sets. 90a:08006
- Lakser, Harry *see* Grätzer, G., 90k:08012
- Martynov, L. M. Varieties of solvable algebras. (Russian) 90k:08013
- Movsisyan, Yu. M. Algebras and clones. (Russian. Armenian summary) 90k:08014
- Items with secondary classifications in 08B99
- Besolov, O. K. On varieties of strictly regular algebras. I. (Russian) 90a:16009
- Bloom, Stephen L. (with Ésik, Z.) Varieties of iteration theories. 90h:68074
- Epanchintsev, V. I. (with Kukin, G. P.) Higman quasivarieties. (Russian) 90c:08008
- Ésik, Z. *see* Bloom, Stephen L., 90h:68074
- Evans, Trevor Embedding and representation theorems for clones and varieties. 90k:08004
- Korczyński, Waldemar An algebraic characterization of concurrent systems. 90f:68054
- Kukin, G. P. *see* Epanchintsev, V. I., 90c:08008
- Lewin, Renato A. Involutions defined by monadic terms. 90f:08002
- Palyutin, E. A. Spectra of varieties. 90i:03035
- Perkins, Peter Finite axiomatizability for equational theories of computable groupoids. 90h:03019
- Ramalho, Margarita Polynomially equivalent varieties of algebras. (Portuguese) 90b:08005
- Rosenberg, S. M. Varieties of Halmos algebras. (Russian) 90b:03094

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08Cxx Classes of algebras

08C05 Categories of algebras [see also 18C05]

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08C10 Axiomatic model classes [see also 03Cxx, in particular 03C60]

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Jarzębski, Grzegorz Weak varieties of partial algebras. 90c:08003

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08C15 Quasivarieties

Adámek, Jiří How many variables does a quasivariety need? 90m:08008

Pigozzi, Don Finite basis theorems for relatively congruence-distributive quasivarieties. 90b:08014

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11-XX Number theory

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— (with Sun, Qi) ★ Shu lun jiangyi, xia ce. (Chinese) [Lectures on number theory. Vol. II] 90c:11004b

Long, Calvin T. ★ Elementary introduction to number theory. 90k:11002

Narkiewicz, W. ★ Classical problems in number theory. 90c:11002

Padberg, Friedhelm ★ Elementare Zahlentheorie. (German) [Elementary number theory] 90f:11001

Redfern, E. J. see Allenby, R. B. J. T., 90c:11001

Sivaramakrishnan, K. ★ Classical theory of arithmetic functions. 90a:11001

Somasundaram, D. Some interesting formulae of Ramanujan. 90b:11001

Sun, Qi see Ke, Zhao, 90c:11004a and 90c:11004b

Items with secondary classifications in 11-01

Bingham, N. H. (with Goldie, Charles M.; Teugels, Jozef L.) ★ Regular variation. 90i:26003

Goldie, Charles M. see Bingham, N. H.; et al., 90i:26003

Meurman, Tom On the Dirichlet divisor problem. (Finnish. English summary) 90h:11096

Teugels, Jozef L. see Bingham, N. H.; et al., 90i:26003

11-02 Advanced exposition (research surveys, monographs, etc.)

(Kasparian, Azniv) see Manin, Yu. I., 90b:11002

Manin, Yu. I. Brouwer Memorial Lecture. (Bulgarian) 90b:11002

(Penkov, I. B.) see Manin, Yu. I., 90b:11002

Items with secondary classifications in 11-02

André, Yves ★ G -functions and geometry. 90k:11087

Beukers, F. (with Manin, Yu. I.) Diophantine equations. 90h:11019

Lang, Serge Old and new conjectured Diophantine inequalities. 90k:11032

Mackey, George W. Induced representations and the applications of harmonic analysis. 90c:22021

Manin, Yu. I. see Beukers, F., 90h:11019

Narkiewicz, W. ★ Classical problems in number theory. 90c:11002

(Ramanujan, Srinivasa) see Waldschmidt, M., 90g:11089

(Ritter, Jürgen) see Representation theory and number theory in connection with the local Langlands conjecture, 90m:11193

Waldschmidt, M. Some transcendental aspects of Ramanujan's work. 90g:11089

Items listed otherwise than by author

Augsburg ★ Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

Conference:

Representation Theory and Number Theory in Connection with the Local Langlands

Conjecture ★ Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

Contemporary Mathematics ★ Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

Representation theory and number theory in connection with the local Langlands conjecture

★ Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

11-03 Historical (must also be assigned at least one classification number from Section 01)

Sinha, T. N. Pell's equation: its history and significance. 90g:11001

Items with secondary classifications in 11-03

(Bohr, Harald) see Kahane, Jean-Pierre, 90k:11116

(Dirichlet, P. G. Lejeune) see Schubring, Gert, 90j:01024

(de Fermat, Pierre) see Remorov, P. N., 90c:01023

Fletcher, Colin R. Fermat's theorem. (French and German summaries) 90g:01012

Gross, Benedict H. (with Tate, J.) Commentary on algebra. 90m:01035

Hurley, Donald Recent computations of π . 90c:11194

Kahane, Jean-Pierre Around Bohr's thesis. 90k:11116

Loo, Jian Jin Dai Xu numbers. (Chinese) 90f:01004

Mayberry, John Penn What are numbers? 90g:00015

Miyake, Gatsuya A note on the arithmetic background to Frobenius' theory of group characters. 90k:11152

Picutti, Ettore Pour l'histoire des sept premiers nombres parfaits. (English and Italian summaries) [Contribution to the history of the first seven perfect numbers] 90f:01006

Ramachandra, K. Srinivasa Ramanujan (the inventor of the circle method). (22.12.1887 to 26.4.1920.) Inaugural address. 90f:01039

(Ramanujan, Srinivasa) see Ramachandra, K., 90f:01039

Remorov, P. N. On the conceptual direction of the works of P. de Fermat. (Russian) 90c:01023

(Rowe, David E.) see Schubring, Gert, 90j:01024

Schubring, Gert Dirichlet. Comment on: "Gauss, Dirichlet, and the law of biquadratic reciprocity" [Math. Intelligencer 10 (1988), no. 2, 13–25; MR 89e:01031] by D. E. Rowe. 90j:01024

Sinha, T. N. Perfect numbers as a source of fundamentals of number theory. 90m:11014

Tate, J. see Gross, Benedict H., 90m:01035

Weil, André Prehistory of the zeta-function. 90c:01029

Wright, Edward Maitland Number theory and other reminiscences of Viscount Cherwell. 90b:01096

11-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 11-04

- Borwein, P. B. (with Loring, Terry A.) Some questions of Erdős and Graham on numbers of the form $\sum g_n/2^{g_n}$. 90b:11020
- Brillhart, John (with Lehmer, D. H.; Selfridge, J. L.; Tuckerman, Bryant; Wagstaff, S. S., Jr.) Factorizations of $b^n \pm 1$. 90d:11009
- Chudnovsky, David V. (with Chudnovsky, Gregory V.) The computation of classical constants. 90m:11206
- Chudnovsky, Gregory V. see Chudnovsky, David V. 90m:11206
- Churchhouse, R. F. Some recent discoveries in number theory and analysis made by the use of a computer. 90c:11093
- Fung, Gilbert W. (with Williams, Hugh Cowie) Quadratic polynomials which have a high density of prime values. 90j:11090
- Lehmer, D. H. see Brillhart, John; et al. 90d:11009
- Loring, Terry A. see Borwein, P. B. 90c:11020
- Saito, Michio (with Wada, Hideo) Tables of ideal class groups of real quadratic fields. 90c:11122
- Selfridge, J. L. see Brillhart, John; et al. 90d:11009
- Trier, P. E. Pi revisited. 90c:11195
- Tuckerman, Bryant see Brillhart, John; et al. 90d:11009
- Wada, Hideo see Saito, Michio 90c:11122
- Wagstaff, S. S., Jr. see Brillhart, John; et al. 90d:11009
- Williams, Hugh Cowie see Fung, Gilbert W. 90j:11090

11-06 Proceedings, conferences, etc.

- (Adolphson, Alan) see Analytic number theory and Diophantine problems. 90c:11003
- (Alladi, K.) see Number theory. 90d:11003
- (Chudakov, N. G.) see Investigations in number theory. 90h:11002
- (Chudnovsky, David V.) see Number theory. 90h:11004
- (Chudnovsky, Gregory V.) see Number theory. 90h:11004
- (Clozel, Laurent) see Automorphic forms, Shimura varieties, and L -functions. 90j:11002 and 90j:11003
- (Cohn, Harvey) see Number theory. 90h:11004
- (Conrey, J. Brian) see Analytic number theory and Diophantine problems. 90c:11003
- (De Koninck, Jean-Marie) see Number theory. 90f:11002
- (Ehrenpreis, Leon) see Theta functions—Bowdoin 1987. 90d:11004 and 90d:11005
- (Ghosh, Amit) see Analytic number theory and Diophantine problems. 90c:11003
- (Goldstein, Catherine) see Seminar: Number Theory. 90c:11004 and 90j:11004
- (Gunning, R. C.) see Theta functions—Bowdoin 1987. 90d:11004 and 90d:11005
- (Györy, K.) see Number theory. 90m:11002
- (Halász, G.) see Number theory. 90m:11002
- (Hlawka, Edmund) see Number-theoretical analysis. 90d:11002 and 90h:11003
- (Ihara, Yasutaka) see Galois groups over \mathbb{Q} . 90d:11001
- (Levesque, Claude) see Number theory. 90f:11002
- (Laxton, J. H.) see Number theory and cryptography. 90m:11003
- (Malyshev, A. V.) see Automorphic functions and number theory. 90h:11001
- (Milne, James S.) see Automorphic forms, Shimura varieties, and L -functions. 90j:11002 and 90j:11003
- (Nathanson, Melvyn B.) see Number theory. 90h:11004
- (Ribet, K.) see Galois groups over \mathbb{Q} . 90d:11001
- (Schlickewel, Hans Peter) see Number theory. 90h:11003
- (Serre, Jean-Pierre) see Galois groups over \mathbb{Q} . 90d:11001
- (Wirsing, E.) see Number theory. 90h:11003
- (Yager, Rodney L.) see Analytic number theory and Diophantine problems. 90c:11003

Items listed otherwise than by author

- Algebraic holomorphic functions ★ Daisuteki seisuron. (Japanese) [Algebraic number theory] 90a:11002
- Analytic number theory—recent developments ★ Kaisenkisuron—saikin no hatten. (Japanese) [Analytic number theory—recent developments] 90m:11001
- Analytic number theory and Diophantine problems ★ Analytic number theory and Diophantine problems. 90c:11003
- Ann Arbor, MI ★ Automorphic forms, Shimura varieties, and L -functions. Vol. I. 90j:11002
- ★ Automorphic forms, Shimura varieties, and L -functions. Vol. II. 90j:11003
- Automorphic forms, Shimura varieties, and L -functions ★ Automorphic forms, Shimura varieties, and L -functions. Vol. I. 90j:11002
- ★ Automorphic forms, Shimura varieties, and L -functions. Vol. II. 90j:11003
- Automorphic functions and number theory ★ Автоморфные функции и теория чисел. (Russian) [Automorphic functions and number theory] 90h:11001
- Berkeley, CA ★ Galois groups over \mathbb{Q} . 90d:11001
- Brunswick, ME ★ Theta functions—Bowdoin 1987. Part 1. 90d:11004
- ★ Theta functions—Bowdoin 1987. Part 2. 90d:11005
- Budapest ★ Number theory. Vol. II. 90m:11002
- Colloquia Mathematica Societatis János Bolyai ★ Number theory. Vol. II. 90m:11002
- Conference:
- Analytic Number Theory and Diophantine Problems ★ Analytic number theory and Diophantine problems. 90c:11003
- Automorphic Forms, Shimura Varieties, and L -Functions ★ Automorphic forms, Shimura varieties, and L -functions. Vol. I. 90j:11002
- ★ Automorphic forms, Shimura varieties, and L -functions. Vol. II. 90j:11003
- Number Theory ★ Number theory. 90h:11003
- ★ Théorie des nombres. [Number theory] 90f:11002
- ★ Number theory. Vol. II. 90m:11002
- Ramanujan Centenary ★ Number theory, Madras 1987. 90d:11003
- Galois groups over \mathbb{Q} ★ Galois groups over \mathbb{Q} . 90d:11001
- Investigations in number theory ★ Исследования по теории чисел. (Russian) [Investigations in number theory] 90h:11002
- Lecture Notes in Mathematics ★ Zahlentheoretische Analysis. (German) [Number-theoretical analysis] 90h:11003

- ★ Zahlentheoretische Analysis. II. (German) [Number-theoretical analysis. II] 90d:11002
- ★ Number theory. 90h:11003
- ★ Number theory, Madras 1987. 90d:11003
- ★ Number theory. 90h:11004
- Madras ★ Number theory, Madras 1987. 90d:11003
- Meeting:
- Australian Mathematical Society ★ Number theory and cryptography. 90m:11003
- New York ★ Number theory. 90h:11004
- Number-theoretical analysis ★ Zahlentheoretische Analysis. (German) [Number-theoretical analysis] 90h:11003
- ★ Zahlentheoretische Analysis. II. (German) [Number-theoretical analysis. II] 90d:11002
- Number theory ★ Number theory. 90h:11003
- ★ Number theory, Madras 1987. 90d:11003
- ★ Théorie des nombres. [Number theory] 90f:11002
- ★ Number theory. 90h:11004
- ★ Number theory. Vol. II. 90m:11002
- Number theory and cryptography ★ Number theory and cryptography. 90m:11003
- Paris ★ Séminaire de Théorie des Nombres, Paris 1985–86. [Seminar on Number Theory, Paris 1985–86] 90c:11004
- Proceedings of Symposia in Pure Mathematics ★ Theta functions—Bowdoin 1987. Part 1. 90d:11004
- ★ Theta functions—Bowdoin 1987. Part 2. 90d:11005
- Progress in Mathematics ★ Analytic number theory and Diophantine problems. 90c:11003
- ★ Séminaire de Théorie des Nombres, Paris 1985–86. [Seminar on Number Theory, Paris 1985–86] 90c:11004
- ★ Séminaire de Théorie des Nombres, Paris 1987–88. (French) [Seminar on Number Theory, Paris 1987–88] 90j:11004
- Quebec, PQ ★ Théorie des nombres. [Number theory] 90f:11002
- Research Institute:
- Theta Functions ★ Theta functions—Bowdoin 1987. Part 1. 90d:11004
- ★ Theta functions—Bowdoin 1987. Part 2. 90d:11005
- Seminar:
- Number Theory ★ Séminaire de Théorie des Nombres. 1987–1988. (French) [Seminar on Number Theory. 1987–1988] 90a:11003
- ★ Séminaire de Théorie des Nombres, Paris 1985–86. [Seminar on Number Theory, Paris 1985–86] 90c:11004
- ★ Number theory. 90h:11004
- ★ Séminaire de Théorie des Nombres, Paris 1987–88. (French) [Seminar on Number Theory, Paris 1987–88] 90j:11004
- Stillwater, OK ★ Analytic number theory and Diophantine problems. 90c:11003
- Sydney ★ Number theory and cryptography. 90m:11003
- Symposium:
- Algebraic Holomorphic Functions ★ Daisuteki seisuron. (Japanese) [Algebraic number theory] 90a:11002
- Analytic Number Theory—Recent Developments ★ Kaisenkisuron—saikin no hatten. (Japanese) [Analytic number theory—recent developments] 90m:11001
- Talence ★ Séminaire de Théorie des Nombres. 1987–1988. (French) [Seminar on Number Theory. 1987–1988] 90a:11003
- Théorie des nombres ★ Théorie des nombres. [Number theory] 90f:11002
- Theta functions—Bowdoin 1987 ★ Theta functions—Bowdoin 1987. Part 1. 90d:11004
- ★ Theta functions—Bowdoin 1987. Part 2. 90d:11005
- Ulm ★ Number theory. 90h:11003
- Workshop:
- Galois Groups over \mathbb{Q} and Related Topics ★ Galois groups over \mathbb{Q} . 90d:11001
- Number Theory and Cryptography in Telecommunications ★ Number theory and cryptography. 90m:11003
- Zahlentheoretische Analysis ★ Zahlentheoretische Analysis. (German) [Number-theoretical analysis] 90h:11003
- ★ Zahlentheoretische Analysis. II. (German) [Number-theoretical analysis. II] 90d:11002

Items with secondary classifications in 11-06

- (Barth, Wolf) see Arithmetic of complex manifolds. 90h:14001
- (Dodson, M. M.) see Number theory and dynamical systems. 90j:58040
- (Hashimoto, Ki-ichiro) see Automorphic forms and geometry of arithmetic varieties. 90k:11043
- (Lange, Herbert) see Arithmetic of complex manifolds. 90h:14001
- (Lack, J. M.) see Number theory and physics. 90m:00039
- (Moussa, P.) see Number theory and physics. 90m:00039
- (Namikawa, Yukihiko) see Automorphic forms and geometry of arithmetic varieties. 90k:11043
- (Narzullaev, Kh. N.) see Problems in algebra and number theory. 90c:00005
- (Vickers, J. A. G.) see Number theory and dynamical systems. 90j:58040
- (Waldschmidt, M.) see Number theory and physics. 90m:00039
- Items listed otherwise than by author
- Arithmetic of complex manifolds ★ Arithmetic of complex manifolds. 90h:14001
- Automorphic forms and geometry of arithmetic varieties ★ Automorphic forms and geometry of arithmetic varieties. 90k:11043
- Conference:
- Arithmetic of Complex Manifolds ★ Arithmetic of complex manifolds. 90h:14001
- Quadratic Forms and Real Algebraic Geometry ★ Quadratic forms and real algebraic geometry. 90j:14028
- Corvallis, OR ★ Quadratic forms and real algebraic geometry. 90j:14028
- Erlangen ★ Arithmetic of complex manifolds. 90h:14001
- Lecture Notes in Mathematics ★ Arithmetic of complex manifolds. 90h:14001
- Les Houches ★ Number theory and physics. 90m:00039

Meeting:

Number Theory and Dynamical Systems ★ Number theory and dynamical systems. 90j:58040

Number theory and dynamical systems ★ Number theory and dynamical systems. 90j:58040

Number theory and physics ★ Number theory and physics. 90m:00039

Problems in algebra and number theory ★ Вопросы алгебры и теории чисел. (Russian) [Problems in algebra and number theory] 90e:00005

Quadratic forms and real algebraic geometry ★ Quadratic forms and real algebraic geometry. 90j:14028

School:

Number Theory and Physics ★ Number theory and physics. 90m:00039

York ★ Number theory and dynamical systems. 90j:58040

11Axx Elementary number theory {For analogues in number fields, see 11R04.}

11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Adler, Irving Concerning the divisors of N and the exponents they belong to modulo $(N-1)$ or $(N+1)$. 90j:11002

Dove, David L. On the existence of sequences of co-prime pairs of integers. 90e:11005

Kleitman, Daniel see Lemke, Paul, 90e:11004

Lemke, Paul (with Kleitman, Daniel) An addition theorem on the integers modulo n . 90e:11004

Palatnea, Eugen Chaines de nombres naturels en rapport avec la divisibilité. [Chains of natural numbers with respect to divisibility] 90m:11004

Pickert, Günter Zur Siebenprobe von Lyons. [The casting-out-sevens test of Lyons] 90e:11003

Qiu, Yong Ping A matrix method and flow chart for finding greatest common divisors. (Chinese) 90g:11003

Wendel, J. G. Shanks' identity is elementary. 90e:11005

Items with secondary classifications in 11A05

Beck, István Partial orders and the modular group. 90f:06002

Beslin, Scott (with Ligh, Steve) Greatest common divisor matrices. 90d:15015

Cobelli, Cristian (with Văjăitu, Marian; Zaharescu, Alexandru) Graham's conjecture under Riemann hypothesis. 90e:11064

Cohen, G. L. On an integer's infinitary divisors. 90e:11011

Kleitman, Daniel Divisors without unit-congruent ratios. 90e:05016

Kuntze, Karlheinz Ein Reduktionsverfahren zur Erzeugung von Teilbarkeitsregeln. [A reduction procedure for the generation of divisibility rules] 90b:11140

Ligh, Steve see Beslin, Scott, 90d:15015

Prucnal, Tadeusz A certain Diophantine equation. (Polish) 90e:11017

Spyropoulos, Konstantine Euler's equation $\varphi(x) = k$ with no solution. 90e:11005

Văjăitu, Marian see Cobelli, Cristian; et al., 90e:11064

Yao, Andrew Chi Chih On selecting the k largest with median tests. 90b:68043

Zaharescu, Alexandru see Cobelli, Cristian; et al., 90e:11064

11A07 Congruences; primitive roots; residue systems

Agrawal, M. K. see Parnami, J. C.; et al., 90k:11004

Bui Minh Phong On super Lucas and super Lehmer pseudoprimes. 90a:11005

Danešková, Věra Vector-covering systems with four equal moduli. (Russian and Slovak summaries) 90b:11004

Day, Satnam S. see Gargal-Naguib, Raouf N., 90e:11006

Duval, Paul (with Vaughan, Theresa P.) Recursions for Carlitz triples. 90d:11006

Gillespie, Frank S. A generalization of Fermat's little theorem. 90e:11006

Gargal-Naguib, Raouf N. (with Day, Satnam S.) Properties of the Euler totient function modulo 24 and some of its cryptographic implications. 90a:11006

Hayashi, E. K. see Howard, F. T., 90m:11005

Hilton, Peter John (with Pedersen, Jean) On a generalization of folding numbers. 90e:11006

— (with Hooper, J.; Pedersen, Jean) On the basic character of residue classes. 90j:11005

Hooper, J. see Hilton, Peter John; et al., 90j:11005

Howard, F. T. (with Hayashi, E. K.) Congruences for numbers of Ramanujan. 90m:11005

Ishikawa, Tsunao On Beukers' conjecture. 90e:11001

Jaeschke, Gerhard On solving rational congruences. 90e:11007

Jó, István The number of solutions of the generalized pseudoprime congruence $a^{n-k} \equiv b^{n-k} \pmod{n}$. 90g:11004

Kingston, J. G. (with Sygne, J. L.) The sequence of pedal triangles. 90b:11005

Klement, Heinz Vereinfachte Teilbarkeitskriterien für 4, 8 und 16. [Simplified divisibility criteria for 4, 8 and 16] 90g:11005

Niederreiter, H. On a problem of Kodama concerning the Hasse-Witt matrix and the distribution of residues. 90a:11007

Parnami, J. C. (with Agrawal, M. K.; Rajwade, A. R.) Some linear relations between certain binomial coefficients modulo a prime. 90k:11004

Pedersen, Jean see Hilton, Peter John, 90e:11006 and 90j:11005

Rajwade, A. R. see Parnami, J. C.; et al., 90k:11004

Riesel, Hans Some soluble cases of the discrete logarithm problem. 90e:11007

Schumer, P. (with Steinig, J.) On the incongruence of consecutive fourth powers. 90e:11008

(Simpson, R. J.) see Zeilberger, Doron, 90a:11008

Smyth, C. J. Congruences for symmetric functions. 90d:11007

Somer, Lawrence On Fermat d -pseudoprimes. 90j:11006

Steinig, J. see Schumer, P., 90e:11008

Sun, Zhi Wei Systems of congruences with multipliers. (Chinese. English summary) 90m:11006

Syngé, J. L. see Kingston, J. G., 90b:11005

Tu, Pao Sheng A simple method which generates infinitely many congruence identities. 90m:11007

Vaughan, Theresa P. see Duval, Paul, 90d:11006

Yuan, Ping Zhi On the congruence $a^{n-k} \equiv 1 \pmod{n}$. (Chinese. English summary) 90e:11008

Zeilberger, Doron On a conjecture of R. J. Simpson about exact covering congruences: "Disjoint covering systems of congruences" [Amer. Math. Monthly 94 (1987), no. 9, 865-868; MR 89b:11006]. 90a:11008

Zhang, Shu Sheng An extension of a theorem of number theory. (Chinese) 90g:11006

Items with secondary classifications in 11A07

Barcau, Mugurel A sharp estimate of the discriminator. 90m:11010

Berger, Marc A. (with Felzenbaum, Alexander; Fraenkel, A. S.) Mycielski-Sierpiński conjecture and Korec-Znám result. 90d:20044

Chalk, John H. H. Quelques remarques sur les congruences polynômes modulo p^n . (English summary) [Some remarks on polynomial congruences modulo p^n] 90a:11101

Cooper, Curtis N. see Kennedy, Robert E., 90d:11015

Creutzburg, Reiner (with Tasche, Manfred) Parameter determination for complex number-theoretic transforms using cyclotomic polynomials. 90e:11182

Felzenbaum, Alexander see Berger, Marc A.; et al., 90d:20044

Fraenkel, A. S. see Berger, Marc A.; et al., 90d:20044

Kennedy, Robert E. (with Cooper, Curtis N.) Niven repunits and $10^n \equiv 1 \pmod{n}$. 90d:11015

Qu, Wan Ling A "covering" problem for subsets. (Chinese. English summary) 90d:05073

Sobinov, M. S. On the expandability of the polynomial $x^p - (x-1)^p - 1 \pmod{p}$. (Russian) 90j:11136

Somer, Lawrence Congruence relations for k th-order linear recurrences. 90e:11012

Sun, Qi On primitive roots in a finite field. (Chinese. English summary) 90e:11186

Tasche, Manfred see Creutzburg, Reiner, 90e:11182

Volodin, N. A. Distribution mod p^N of polynomial coefficients. (Russian) 90i:11022

Waterhouse, William C. The determination of all Carlitz sets. 90j:11025

Yeung, Kit Ming On congruences for binomial coefficients. 90e:11143

Zhao, Yong Gan A condition for an algebraic integer β in a quadratic Euclidean field $\mathbb{Q}(\sqrt{d})$ ($d \equiv 3 \pmod{4}$) to have a primitive root. (Chinese. English summary) 90g:11144

11A15 Power residues, reciprocity

Evans, Ronald Residuacity of primes. 90m:11008

Helou, Charles On rational reciprocity. 90g:11007

Lehmer, Emma An indeterminate in number theory. 90d:11008

Monzingo, M. G. On the sum $\sum_{a=1}^{p-1} (a/p)a$. 90m:11009

Steenvoorde, L. M. Prime numbers and quadratic residues, a trove in the garden of numbers. (Dutch) 90a:11009

Items with secondary classifications in 11A15

Granville, Andrew (with Shank, H. S.) Defining Bernoulli polynomials in $\mathbb{Z}/p\mathbb{Z}$ (a generic regularity condition). 90f:11015

Halter-Koch, Franz (with Ishii, Noburo) Ring class fields modulo 8 of $\mathbb{Q}(\sqrt{-m})$ and the quartic character of units of $\mathbb{Q}(\sqrt{m})$ for $m \equiv 1 \pmod{8}$. 90j:11123

Ishii, Noburo Quadratic units and congruences between Hilbert modular forms. 90b:11047 — see also Halter-Koch, Franz, 90j:11123

Shank, H. S. see Granville, Andrew, 90f:11015

11A25 Arithmetic functions; related numbers; inversion formulas

Atanassov, Krassimir T. More on the Ψ -function. I, II. 90e:11009

— Some assertions on φ and σ functions. 90e:11010

— New integer functions, related to φ and σ functions. 90j:11007

— Remarks on φ , σ and other functions. 90a:11010

— (with Sándor, József) On some modifications of φ and σ functions. 90f:11003

— see also Vasiliev, Miladen V., 90f:11006

Balassubramanian, N. On friendly-pairs of arithmetic functions. 90k:11005

Barcau, Mugurel A sharp estimate of the discriminator. 90m:11010

Barozzi, Giulio Cesare Highly composite numbers. (Italian) 90b:11005

Benito Muñoz, Manuel On the cardinality of some finite subsets of the unit square. (Spanish) 90m:11011

Brillhart, John (with Lehmer, D. H.; Selfridge, J. L.; Tuckerman, Bryant; Wagstaff, S. S., Jr.) ★ Factorizations of $b^n \pm 1$. 90d:11009

Chidambaramswamy, J. (with Krishnaiah, P. V.) On integers n with $\varphi_1(n) > \varphi_1(m)$ for $m < n$. 90b:11006

Cohen, G. L. (with Segal, S. L.) A note concerning those n for which $\varphi(n) + 1$ divides n . 90g:11008

— On an integer's infinitary divisors. 90e:11011

Daróczy, Zoltán (with Kátai, Imre) On additive functions taking values from a compact group. 90j:11002

(Delarte, J.) see Mauchlaire, J.-L., 90k:11008

Eugen, Franco (with Rizzi, Bruno) A new generalization of three identities of Ramanujan and Suryanarayana. 90d:11010

Fabrykowski, Jacek (with Subbarao, M. V.) The maximal order and the average order of multiplicative function $\sigma^{(r)}(n)$. 90m:11012

Fejes Tóth, László (with Sándor, József) An asymptotic formula concerning a generalized Euler function. 90g:11009

Fonseca, Philippina see Siva Rama Prasad, V., 90i:11008

Graham, S. W. Unitary perfect numbers with squarefree odd part. 90i:11003

Hagis, Peter, Jr. Some results concerning exponential divisors. 90d:11011

— On the equation $M \cdot \varphi(n) = n - 1$. 90d:11012

— Odd nonunitary perfect numbers. 90k:11006

Hannamanchari, J. see Reddy, P. V., 90b:11007

- Haukkanen, Pentti Some classes of quasi-fields having isomorphic additive and multiplicative groups. 90e:11012
- Classical arithmetical identities involving a generalization of Ramanujan's sum. 90e:11013
- Some generalized totient functions. 90e:11004
- Arithmetical equations involving semi-multiplicative functions and the Dirichlet convolution. (Italian summary) 90e:11007
- On the Davison convolution of arithmetical functions. 90e:11008
- On the Dirichlet series of rational arithmetical functions. 90e:11009
- Comparison of regular convolutions. 90e:11005
- Hausman, Miriam An arithmetical function and its iterates. 90g:11010
- Heesterbeek, J. A. P. (with Schellinx, H. A. J. M.) On sums of remainders and almost perfect numbers. 90e:11004
- Kanold, Hans-Joachim Über "quasi-vollkommene Zahlen". [On quasiperfect numbers] 90e:11011
- Kátai, Imre see Daróczy, Zoltán, 90e:11002
- Kovács, Katalin On the characterization of k -dimensional additive functions. I, II. 90e:11006
- Krishnaiah, P. V. see Chidambaramswamy, J., 90e:11006
- Lehmer, D. H. see Brillhart, John; et al., 90d:11009
- Marcu, Dănuț An arithmetic equation. 90d:11013
- Mauclair, J.-L. Comments on an article by J. Delsarte: "Essay on the application of the theory of almost periodic functions to arithmetic" [Ann. Sci. École Norm. Sup. (3) 62 (1945), 185–204; MR 8, 316]. (French) 90e:11008
- Maxsein, Th. Potenzreihen mit fastgeraden Koeffizienten. [Power series with almost even coefficients] 90g:11011
- McCarthy, Paul J. Products of arithmetical functions and their generating functions. 90e:11014
- Mercier, Arnel Une représentation pour la série de Dirichlet engendrée par $f(n'M)$, où f est multiplicative. [A representation for the Dirichlet series generated by $f(n'M)$, where f is multiplicative] 90e:11006
- Najjar, Rudolph M. Operations on generators of unitary amicable pairs. 90g:11012
- Perelli, A. There are only five Fermat primes. 90e:11010
- Ramamoorthi, P. (with Vasu, A. C.; Subrahmanya Sastri, V. V.) On two new analogues of Euler totient. 90e:11011
- Rangamma, M. see Siva Rama Prasad, V., 90e:11009
- Reddy, P. V. (with Hanumanthachari, J.) Structure of a class of integers and its applications to certain totients and allied Ramanujan sums. 90e:11007
- Rizzi, Bruno see Eugeni, Franco, 90d:11010
- Rutkowski, Jerzy On Čebyšev inequality for arithmetic functions. 90m:11013
- Sándor, József see Atanassov, Krassimir T., 90e:11003 and Fejes Tóth, László, 90e:11009
- Satyanarayana, B. (with Vangipuram, S.) Bounds for $\sigma(N)/N$. 90e:11007
- Schellinx, H. A. J. M. see Heesterbeek, J. A. P., 90e:11004
- Segal, S. L. see Cohen, G. L., 90e:11008
- Selfridge, J. L. see Brillhart, John; et al., 90d:11009
- Sinha, T. N. Perfect numbers as a source of fundamentals of number theory. 90m:11014
- Sita Ramaiah, V. On the existence of unity of Lehmer's φ -product ring. 90m:11015
- Siva Rama Prasad, V. (with Fonseca, Philippina) The solutions of a class of arithmetic equations. 90e:11008
- (with Rangamma, M.) On the forms of n for which $\varphi(n) \mid n - 1$. 90e:11009
- Somasundaram, D. A divisor problem of Srinivasa Ramanujan in Notebook 3. 90e:11010
- Spyropoulos, Konstantine Euler's equation $\varphi(x) = k$ with no solution. 90e:11005
- Subbarao, M. V. (with Yip, L.-W.) Carmichael's conjecture and some analogues. 90e:11012
- see also Fabrykowski, Jack, 90e:11012
- Subrahmanya Sastri, V. V. see Ramamoorthi, P.; et al., 90e:11011
- Thajoddin, S. (with Vangipuram, S.) A note on Jordan's totient function. 90e:11012
- Tuckerman, Bryant see Brillhart, John; et al., 90d:11009
- Vangipuram, S. see Thajoddin, S., 90e:11012 and Satyanarayana, B., 90e:11007
- Vassilev, Mladen V. (with Atanassov, Krassimir T.) Some identities with double sums. 90e:11006
- Vasu, A. C. see Ramamoorthi, P.; et al., 90e:11011
- Wagstaff, S. S., Jr. see Brillhart, John; et al., 90d:11009
- Yip, L.-W. see Subbarao, M. V., 90e:11012
- Zafarullah, Muhammad On generalised multiplicative functions. 90e:11009
- Items with secondary classifications in 11A25
- Atanassov, Krassimir T. (with Shannon, A. G.; Clarke, J. H.) A digit sum arithmetic function. 90d:11024
- Clarke, J. H. see Atanassov, Krassimir T.; et al., 90d:11024
- Cooper, Curtis N. see Kennedy, Robert E., 90m:11024
- Hausman, Miriam On norm abundant Gaussian integers. 90e:11156
- Kennedy, Robert E. (with Cooper, Curtis N.) A generalization of a result of C. Ramus and its application to digital sums. 90m:11024
- Kunth, Peter Der topologische Dualraum des Raums B^q der q -fastgeraden zahlentheoretischen Funktionen ($0 < q < \infty$). [The topological dual space of the space B^q of the q -almost even number-theoretic functions ($0 < q < \infty$)] 90m:11143
- Lalović, Ilija Möbius functions of partially ordered sets. (Serbo-Croatian) 90k:05008
- Lioen, W. M. see de Riele, Herman; et al., 90h:11111
- Montgomery, Hugh L. Fluctuations in the mean of Euler's phi function. 90e:11138
- Nowak, Werner Georg On Euler's φ -function in quadratic number fields. 90k:11121
- Perelli, A. (with Zannier, Umberto) An extremal property of the Möbius function. 90e:11104
- de Riele, Herman (with Lioen, W. M.; Winter, Dik) Factoring with the quadratic sieve on large vector computers. 90h:11111
- Sándor, József Some arithmetic inequalities. 90e:11142
- Shannon, A. G. see Atanassov, Krassimir T.; et al., 90d:11024
- Sivaramakrishnan, R. ★ Classical theory of arithmetic functions. 90a:11001
- Spector, Donald Multiplicative functions, Dirichlet convolution, and quantum systems. 90m:82013
- Stein, Alan H. Exponential sums of digit counting functions. 90m:11025

- Winter, Dik see de Riele, Herman; et al., 90h:11111
- Xiao, Ti Zao Estimates of certain sums involving the reciprocals of the largest prime factors of integers. (Chinese. English summary) 90d:11109
- Yoshida, Tomoyuki Character-theoretic transfer. II. 90d:20019
- Some transfer theorems for finite groups. 90d:20020
- Zannier, Umberto see Perelli, A., 90e:11104
- Zarzycki, Piotr On a certain additive function on the Gaussian integers. 90h:11097

11A41 Primes

- Cosgrave, John B. A remark on Euclid's proof of the infinitude of primes. 90e:11011
- Cox, David A. ★ Primes of the form $x^2 + ny^2$. 90m:11016
- Iséki, Kiyoshi Smallest and largest primes with some digits. 90e:11013
- Löh, Günter Long chains of nearly doubled primes. 90e:11015
- Luo, Xue Dong A practical sieve algorithm for finding prime numbers. 90h:11007
- Parady, B. K. (with Smith, Joel F.; Zaranonello, Sergio E.) Largest known twin primes. 90e:11013
- Sándor, József Über die Folge der Primzahlen. [On the sequence of primes] 90e:11007
- Smith, Joel F. see Parady, B. K.; et al., 90e:11013
- Vaidya, A. M. Bertrand's postulate and some of its consequences. 90m:11017
- Zaranonello, Sergio E. see Parady, B. K.; et al., 90e:11013

Items with secondary classifications in 11A41

- Erdős, Paul (with Riesel, Hans) On admissible constellations of consecutive primes. 90e:11145
- Grosswald, Emil Some number theoretical products. 90e:11129
- Iséki, Kiyoshi Special palindromic prime numbers. 90e:11155
- Palindromic prime numbers from experimental number theory. 90e:11094
- Palindromic prime numbers from experimental number theory. II. 90e:11095
- Perelli, A. There are only five Fermat primes. 90e:11010
- Ribenboim, P. Euler's famous prime-generating polynomial and the class number of imaginary quadratic fields. (Spanish) 90d:11118
- ★ The book of prime number records. 90e:11127
- Riesel, Hans see Erdős, Paul, 90e:11145
- Schumer, P. (with Steinig, J.) On the incongruence of consecutive fourth powers. 90e:11008
- Steinig, J. see Schumer, P., 90e:11008
- Yokoi, Hideo Some relations among new invariants of prime number p congruent to 1 mod 4. 90h:11107

11A51 Factorization; primality

- Bateman, P. T. (with Selfridge, J. L.; Wagstaff, S. S., Jr.) The new Mersenne conjecture. 90e:11009
- see also Mullin, Albert A., 90e:11008
- Chen, Xie Bin Number-theoretic properties of Lucas numbers and a sufficient condition for primality of a class of numbers. (Chinese) 90e:11016
- Jacschke, Gerhard The Carmichael numbers to 10^{12} . 90m:11018
- Kang, Shin Won On the primality of the Mersenne number M_p . 90e:11012
- Mullin, Albert A. Letter to the editor: "The new Mersenne conjecture" [Amer. Math. Monthly 96 (1989), no. 2, 125–128; MR 90c:11009] by P. T. Bateman, J. L. Selfridge and S. S. Wagstaff, Jr. 90e:11008
- Selfridge, J. L. see Bateman, P. T.; et al., 90e:11009 and Mullin, Albert A., 90e:11008
- Sun, Qi (with Yuan, Ping Zhi) Some problems on powerful numbers. (Chinese. English summary) 90m:11019
- Vallée, Brigitte Factorisation entière par génération quasi-uniforme de petits résidus quadratiques. (English summary) [Integer factoring with quasi-uniform generation of small quadratic residues] 90e:11017
- Wagstaff, S. S., Jr. see Bateman, P. T.; et al., 90e:11009 and Mullin, Albert A., 90e:11008
- Yuan, Ping Zhi see Sun, Qi, 90m:11019
- Items with secondary classifications in 11A51
- Bollinger, Richard C. The Mann-Shanks primality criterion in the Pascal- T triangle T_3 . 90h:11016
- Davis, James Avery (with Holdridge, Diane B.) Factorization of large integers on a massively parallel computer. 90h:11139
- Gurak, S. Cubic and biquadratic pseudoprimes of Lucas type. 90e:11166
- Hewitt, Edwin The riddle of the primes. 90e:11003
- Holdridge, Diane B. see Davis, James Avery, 90h:11139
- Jammalamadaka, S. Rao (with Uppuluri, V. R. R.) Is p a prime number? Some probabilistic tests for primality. 90e:11189
- Kim, Su Hee (with Pomerance, Carl) The probability that a random probable prime is composite. 90e:11190
- Mihăilescu, Preda A primality test using cyclotomic extensions. 90e:11147
- Pomerance, Carl see Kim, Su Hee, 90e:11190
- Uppuluri, V. R. R. see Jammalamadaka, S. Rao, 90e:11189
- Vasilenko, O. N. Current methods for testing for the primality of numbers. A survey. (Russian) 90e:11153
- Yuan, Ping Zhi On the congruence $a^{n-k} \equiv 1 \pmod{n}$. (Chinese. English summary) 90e:11008

11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15.}

- Achuthan, P. (with Ponnuswamy, S.) A theorem of Ramanujan and conversion of continued fractions into power series. 90a:11014
- Andrews, George (with Berndt, Bruce C.; Jacobsen, Lisa; Lamphere, Robert L.) Variations on the Rogers-Ramanujan continued fraction in Ramanujan's notebooks. 90m:11020
- Angell, David The limiting behaviour of certain sequences of continued fractions. 90e:11015

- Bedocchi, Edmondo A note on p -adic continued fractions. (Italian. English summary) 90d:11014
- Berndt, Bruce C. *see* Andrews, George; et al. 90m:11020
- Hara, Yuko (with Ito, Shunji) On real quadratic fields and periodic expansions. 90m:11021
- Higuchi, Teichi *see* Tokuda, Hiroto; et al. 90a:11016
- Ito, Shunji *see* Hara, Yuko, 90m:11021
- Jacobsen, Lisa *see* Andrews, George; et al. 90m:11020
- Knopfmacher, Arnold (with Knopfmacher, John) Infinite series representations for complex numbers. 90c:11018
- Knopfmacher, John *see* Knopfmacher, Arnold, 90c:11018
- Lamphere, Robert L. *see* Andrews, George; et al. 90m:11020
- Louboutin, Stéphane Une version effective d'un théorème de A. Schinzel sur les longueurs des périodes de certains développements en fractions continues. (English summary) [An effective version of a theorem of A. Schinzel about the length of some continued fractional expansions] 90c:11019
- Ponnuswamy, S. *see* Achuthan, P., 90a:11014
- Stakhov, S. V. Continued fractions over the quaternion ring of a tetrahedron. (Russian) (*see* 90b:20005)
- Tashiro, Yoshiaki *see* Tokuda, Hiroto; et al. 90a:11016
- Tokuda, Hiroto (with Tashiro, Yoshiaki; Higuchi, Teichi) On the structure of the integer by continued fraction. 90a:11016
- Zagier, Don On an approximate identity of Ramanujan. 90c:11010
- Items with secondary classifications in 11A55
- Arnol'd, V. I. A -graded algebras and continued fractions. 90b:32025
- Bergeron, F. (with Berstel, J.; Brlek, S.; Duboc, C.) Addition chains using continued fractions. 90c:68044
- Berstel, J. *see* Bergeron, F.; et al. 90c:68044
- Brlek, S. *see* Bergeron, F.; et al. 90c:68044
- Chen, Wen Chin *see* Chung, Kuo Liang; et al. 90m:11207
- Chung, Kuo Liang (with Chen, Wen Chin; Lin, Feng Ch'ing) Fast computation of periodic continued fractions. 90m:11207
- Duboc, C. *see* Bergeron, F.; et al. 90c:68044
- Irwin, M. C. Geometry of continued fractions. 90j:11063
- Knopfmacher, Arnold (with Knopfmacher, John) Two concrete new constructions of the real numbers. 90k:26003a
- (with Knopfmacher, John) Two constructions of the real numbers via alternating series. 90k:26003b
- Knopfmacher, John *see* Knopfmacher, Arnold, 90k:26003a and 90k:26003b
- Lin, Feng Ch'ing *see* Chung, Kuo Liang; et al. 90m:11207
- Louboutin, Stéphane Continued fractions and real quadratic fields. 90a:11119
- van Ravenstiel, Tony The three gap theorem (Steinhaus conjecture). 90a:11076
- SchoiBengeier, J. Eine explizite Formel für $\sum_{n \leq N} B_2(\{na\})$. (English summary) [An explicit formula for $\sum_{n \leq N} B_2(\{na\})$] 90j:11021
- Wang, Lu Quan The continued fraction representation of solutions to Pell's equation. (Chinese. English summary) 90i:11028

11A63 Radix representation; digital problems {For metric results, see 11K16.}

- Allouche, Jean-Paul (with Shallit, Jeffrey) Infinite products associated with counting blocks in binary strings. 90j:11013
- Bicknell-Johnson, Marjorie Retrograde renegades and the Pascal connection: repeating decimals represented by Fibonacci and other sequences appearing from right to left. 90i:11013
- Borwein, P. B. (with Loring, Terry A.) Some questions of Erdős and Graham on numbers of the form $\sum_{k=0}^n g_k/2^k$. 90c:11020
- Cooper, Curtis N. *see* Kennedy, Robert E., 90d:11015; 90i:11014 and 90m:11024
- Drobot, Vladimir *see* Kennedy, Robert E.; et al. 90i:11014
- Dumont, Jean-Marie Formules sommatoires et systèmes de numération liés aux substitutions. [Summation formulas and numbering systems associated with substitutions] 90m:11023
- (with Thomas, Alain) Systèmes de numération et fonctions fractales relatifs aux substitutions. (English summary) [Numbering systems and fractal functions related to substitutions] 90m:11022
- Frougny, Christiane Linear numeration systems, θ -developments and finite automata. (*see* 90c:68014)
- Hickling, Fred *see* Kennedy, Robert E.; et al. 90i:11014
- Kennedy, Robert E. (with Cooper, Curtis N.) Niven repunits and $10^n \equiv 1 \pmod{n}$. 90d:11015
- (with Cooper, Curtis N.; Drobot, Vladimir; Hickling, Fred) On the natural density of the range of the terminating nines function. 90i:11014
- (with Cooper, Curtis N.) A generalization of a result of C. Ramus and its application to digital sums. 90m:11024
- Kirschenhofer, P. (with Prodinger, H.; Tichy, R. F.) Über die Ziffernsumme natürlicher Zahlen und verwandte Probleme. (English summary) [On the sum of digits of natural numbers and related problems] 90k:11010
- Loring, Terry A. *see* Borwein, P. B., 90c:11020
- McDaniel, Wayne L. Difference of the digital sums of an integer base b and its prime factors. 90c:11021
- (with Yates, Samuel) The sum of digits function and its application to a generalization of the Smith number problem. 90j:11014
- Mignotte, Maurice Sur les entiers qui s'écrivent simplement en différentes bases. [The integers that can be written simply in different bases] 90g:11015
- Pavone, Marco The Cantor set and a geometric construction. 90g:11016
- Prodinger, H. *see* Kirschenhofer, P.; et al. 90k:11010
- Rauzy, G. Rotations sur les groupes, nombres algébriques, et substitutions. [Rotations on groups, algebraic numbers and permutations] 90j:11017
- Schmidt, Harvey, Jr. Palindromes: density and divisibility. 90a:11017
- Shallit, Jeffrey *see* Allouche, Jean-Paul, 90j:11013

- Steidl, Gabriele On symmetric radix representation of Gaussian integers. 90i:11015
- Stein, Alan H. Exponential sums of digit counting functions. 90m:11025
- Subrahmanya Sastri, V. V. A note on some results associated with the unique representation of a positive integer in any scale. 90a:11018
- Thomas, Alain *see* Dumont, Jean-Marie, 90m:11022
- Tichy, R. F. *see* Kirschenhofer, P.; et al. 90k:11010
- Yates, Samuel *see* McDaniel, Wayne L., 90c:11014
- Zita, K. 1989—mühevoll. [1989—troublesome] (Not in MR)

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- Allouche, Jean-Paul (with Hajnal, P.; Shallit, Jeffrey) Analysis of an infinite product algorithm. 90f:68073
- Goh, William M. Y. Dynamical representation of real numbers and its universality. 90j:11072
- Hajnal, P. *see* Allouche, Jean-Paul; et al. 90f:68073
- Hermann, Arnold Verschlüsselung und Entschlüsselung von Nachrichten. [Coding and decoding of information] 90f:94030
- Iséki, Kiyoshi Special palindromic prime numbers. 90a:11155
- Klement, Heinz Vereinfachte Teilbarkeitskriterien für 4, 8 und 16. [Simplified divisibility criteria for 4, 8 and 16] 90g:11005
- Lexton, J. H. Automata and transcendence. 90b:11068
- Shallit, Jeffrey *see* Allouche, Jean-Paul; et al. 90f:68073
- Shorey, T. N. Integers with identical digits. 90j:11027
- Selinas, Jerome A. On the joint distribution of digital sums. 90m:11142

11A67 Other representations

- Bruckman, Paul S. The generalized Zeckendorf theorems. 90k:11011
- Goetgheluck, Pierre On cubic polynomials giving many primes. 90j:11014
- Horváth, Miklós On additive functions. 90b:11008
- Items with secondary classifications in 11A67
- Capocelli, Renato M. A note on Fibonacci trees and the Zeckendorf representation of integers. 90a:11024
- Filipponi, Piero *see* Freitag, Herta T., 90i:11035
- Freitag, Herta T. (with Filipponi, Piero) On the F -representation of integral sequences $\{F_n^2/d\}$ and $\{L_n^2/d\}$ where d is either a Fibonacci or a Lucas number. 90e:11035
- Honkala, Juha On number systems with negative digits. 90d:68040
- Klement, Heinz Vereinfachte Teilbarkeitskriterien für 4, 8 und 16. [Simplified divisibility criteria for 4, 8 and 16] 90g:11005
- Knopfmacher, Arnold (with Knopfmacher, John) A binomial product representation for p -adic numbers. 90i:11097
- (with Knopfmacher, John) p -adic and non-Archimedean product representations. 90e:11098
- Knopfmacher, John *see* Knopfmacher, Arnold, 90i:11097 and 90e:11098
- Morikawa, Ryozo Disjoint systems of rational Beatty sequences. 90m:11035

11A99 None of the above, but in this section

- Baron, Gerd Ein lineares Programm in der Zahlentheorie. (English summary) [A linear program in number theory] 90k:11012
- Berzsenyi, George *see* Mootha, Vamsi Krishna, 90e:11023
- Erdős, Paul (with Lacampagne, C. B.; Selfridge, J. L.) Prime factors of binomial coefficients and related problems. 90f:11009
- Krasikov, I. How many numbers satisfy the $3X+1$ conjecture? 90k:11013
- Lacampagne, C. B. *see* Erdős, Paul; et al. 90f:11009
- Makowski, Andrzej Remarks on some problems in the elementary theory of numbers. (Russian and Slovak summaries) 90e:11022
- Mootha, Vamsi Krishna (with Berzsenyi, George) Characterizations and extendibility of P_i -sets. 90i:11023
- Rawsthorne, Daniel A. How many 1's are needed? 90b:11008
- Selfridge, J. L. *see* Erdős, Paul; et al. 90f:11009
- Items with secondary classifications in 11A99
- Kleinert, Ernst Some remarks on the Chinese remainder theorem. 90i:13003
- Knuth, Donald E. (with Wilf, Herbert S.) The power of a prime that divides a generalized binomial coefficient. 90d:11029
- Steidl, Gabriele (with Tasche, Manfred) Index transforms for multidimensional DFTs and convolutions. 90m:94015
- Tasche, Manfred *see* Steidl, Gabriele, 90m:94015
- Wilf, Herbert S. *see* Knuth, Donald E., 90d:11029
- Wang, W. J. Powers of a prime dividing binomial coefficients. 90d:05011

11Bxx Sequences and sets

11B05 Density, gaps, topology

- Bhramarambika, M. V. S. *see* Siva Rama Prasad, V., 90b:11010
- Bosznay, Ádám P. On the lower estimation of nonaveraging sets. 90d:11016
- Choate, David On the sum of subsequences. 90e:11024
- Cooper, Curtis N. (with Kennedy, Robert E.) Chebyshev's inequality and natural density. 90j:11018
- Daróczy, Zoltán (with Kátai, Imre) Interval filling sequences and additive functions. 90c:11019
- (with Kátai, Imre; Szabó, Tamás Zoltán) On completely additive functions related to interval-filling sequences. 90k:11014
- Erdős, Paul (with Sárközy, A.; Sós, V. T.) On a conjecture of Roth and some related problems. I. 90d:11017

- Giallano Antonini, Rita Construction et comparaison de densités arithmétiques. (English and Italian summaries) [Construction and comparison of arithmetical densities] 90c:11025
- Greenberg, Peter (with Reséndis, Lino; Rivaud, Juan José) Absolute convergence and asymptotic density. (Spanish) 90d:11018
- Hall, R. R. The distribution of squarefree numbers. 90b:11009
- Hegvári, N. Some remarks on a problem of Erdős and Graham. 90c:11026
- Kátai, Imre see Daróczy, Zoltán, 90a:11019 and 90k:11014
- Kennedy, Robert E. see Cooper, Curtis N., 90g:11018
- Obata, Nobuaki Density of natural numbers and the Lévy group. 90c:11027
- Pollington, Andrew D. On the density of B_2 -bases. 90b:11009
- Reséndis, Lino see Greenberg, Peter; et al., 90d:11018
- Rivaud, Juan José see Greenberg, Peter; et al., 90d:11018
- Rzepecka, Genowefa On density of pairs of natural numbers. (Polish summary) 90k:11015
- Salát, Tibor Convergence of subseries of the harmonic series and asymptotic densities of sets of integers (preliminary announcement). (Russian and Slovak summaries) 90g:11019
- Sárközy, A. see Erdős, Paul; et al., 90d:11017
- Siva Rama Prasad, V. (with Bhamaramba, M. V. S.) On the Schnirelmann density of M -free integers. 90h:11010
- Sós, V. T. see Erdős, Paul; et al., 90d:11017
- Szabó, Tamás Zoltán see Daróczy, Zoltán; et al., 90k:11014

Items with secondary classifications in 11B05

- Bergelson, Vitaly (with Hindman, Neil) Density versions of two generalizations of Schur's theorem. 90b:05017
- Erdős, Paul (with Tenenbaum, Gérard) Sur les densités de certaines suites d'entiers. [On the densities of certain sequences of integers] 90b:11007
- Hagis, Peter, Jr. Some results concerning exponential divisors. 90d:11011
- Hildebrand, Adolf On integer sets containing strings of consecutive integers. 90b:11012
- Hindman, Neil see Bergelson, Vitaly, 90b:05017
- Mąkowski, Andrzej Remarks on some problems in the elementary theory of numbers. (Russian and Slovak summaries) 90c:11022
- Nathanson, Melvyn B. (with Sárközy, A.) Sumsets containing long arithmetic progressions and powers of 2. 90m:11026
- (with Sárközy, A.) On the maximum density of minimal asymptotic bases. 90a:11021
- Sárközy, A. see Nathanson, Melvyn B., 90a:11021 and 90m:11026
- Tenenbaum, Gérard see Erdős, Paul, 90b:11007
- Venturini, G. On the $3x+1$ problem. 90c:11020

11B13 Additive bases [see also 05B10]

- Alon, Noga (with Freiman, G.) On sums of subsets of a set of integers. 90c:11028
- Bučík, Jiří The decomposition of an interval of natural numbers into four strongly sum-free sets (preliminary announcement). (Russian and Slovak summaries) 90d:11019
- Bailey, Craig (with Richter, R. B.) Sum zero (mod n), size n subsets of integers. 90d:11020
- Erdős, Paul Some old and new problems on additive and combinatorial number theory. 90c:11016
- Freiman, G. see Alon, Noga, 90c:11028
- Fried, Katalin Rare bases for finite intervals of integers. 90a:11020
- Grekos, Georges Sur l'ordre d'une base additive. [On the order of an additive basis] 90d:11021
- Hajela, D. Some remarks on $B_h[g]$ sequences. 90d:11022
- Jia, Xing De (with Nathanson, Melvyn B.) A simple construction of minimal asymptotic bases. 90g:11020
- Representatives for finite sets. 90d:11023
- Nathanson, Melvyn B. Combinatorial pairs, and sumsets contained in sequences. 90k:11016
- Additive problems in combinatorial number theory. 90j:11015
- (with Sárközy, A.) On the maximum density of minimal asymptotic bases. 90a:11021
- see also Jia, Xing De, 90g:11020
- Richter, R. B. see Bailey, Craig, 90d:11020
- Ruzsa, Imre Z. On a probabilistic method in additive number theory. 90f:11010
- Sárközy, A. see Nathanson, Melvyn B., 90a:11021
- Selmer, Ernst S. Sub-bases of pleasant h -bases. 90c:11017
- Zaanen, Umberto On a theorem of Birch concerning sums of distinct integers taken from certain sequences. 90h:11011

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- Crampin, D. J. (with Rogers, D. G.) An arithmetic of complete permutations with constraints. II. Case studies. 90j:05011b
- Jungnickel, Dieter (with Pott, Alexander) Computational nonexistence results for abelian affine difference sets. 90g:05045
- Kløve, Torleiv Bounds and construction for difference triangle sets. 90g:05046
- Nathanson, Melvyn B. (with Sárközy, A.) Sumsets containing long arithmetic progressions and powers of 2. 90m:11026
- Norman, Robert Z. Don't underestimate the importance of graphs. 90b:05089
- Pott, Alexander see Jungnickel, Dieter, 90g:05045
- Rogers, D. G. An arithmetic of complete permutations with constraints. I. An exposition of the general theory. 90j:05011a
- see also Crampin, D. J., 90j:05011b
- Sárközy, A. Hybrid problems in number theory. 90m:11017
- see also Nathanson, Melvyn B., 90m:11026
- Selmer, Ernst S. On regular Frobenius bases. 90c:11038
- Solányi, Tamás (with Wettl, Ferenc) On complexes in a finite abelian group. I. 90c:20066a
- (with Wettl, Ferenc) On complexes in a finite abelian group. II. 90c:20066b
- Wettl, Ferenc see Solányi, Tamás, 90c:20066a and 90c:20066b

11B25 Arithmetic progressions [see also 11N13]

- Bézivin, J.-P. Une généralisation du théorème de Skolem-Mahler-Lech. [A generalization of

- the Skolem-Mahler-Lech theorem] 90g:11021
- Brown, Tom C. (with Freedman, Allen R.) Small sets which meet all the $k(n)$ -term arithmetic progressions in the interval $[1, n]$. 90c:11029
- Freedman, Allen R. see Brown, Tom C., 90c:11029
- Greenwell, Raymond N. (with Landman, Bruce M.) On the existence of a reasonable upper bound for the van der Waerden numbers. 90b:11010b
- Hildebrand, Adolf On integer sets containing strings of consecutive integers. 90b:11012
- Landman, Bruce M. Generalized van der Waerden numbers. 90b:11010a
- see also Greenwell, Raymond N., 90b:11010b
- Leffmann, Hanno A note on monoton waves. 90c:11030
- Nathanson, Melvyn B. (with Sárközy, A.) Sumsets containing long arithmetic progressions and powers of 2. 90m:11026
- Sárközy, A. see Nathanson, Melvyn B., 90m:11026
- Toki, Keisuke On Hasse-Witt matrices of Fermat varieties. 90c:11031

Items with secondary classifications in 11B25

- Cel, Jarosław Sur l'impossibilité en nombres entiers des progressions arithmétiques de la forme (x^3, y^4, z^2) et (x^4, y^3, z^2) dont les termes sont relativement premiers. (Polish summary) [On the impossibility in integers of arithmetical progressions of the form (x^3, y^4, z^2) and (x^4, y^3, z^2) with coprime terms] 90g:11032
- Nathanson, Melvyn B. Sums of polygonal numbers. 90m:11037
- (Simpson, R. J.) see Zeilberger, Doron, 90a:11008
- Toler, D. I. On the division problem in arithmetic progressions. 90c:11068
- Zeilberger, Doron On a conjecture of R. J. Simpson about exact covering congruences: "Disjoint covering systems of congruences" [Amer. Math. Monthly 94 (1987), no. 9, 865–868; MR 89b:11006]. 90a:11008

11B34 Representation functions

- Jia, Xing De On a combinatorial problem of Erdős and Nathanson. (Chinese) 90c:11018

Items with secondary classifications in 11B34

- Daróczy, Zoltán (with Kátai, Imre) Interval filling sequences and additive functions. 90a:11019
- Drimbe, Mihai Onescu Generalization of representation theorem of Erdős and Surányi. 90b:11029
- Kátai, Imre see Daróczy, Zoltán, 90a:11019

11B37 Recurrences

- Atanassov, Krassimir T. (with Shannon, A. G.; Clarke, J. H.) A digit sum arithmetic function. 90d:11024
- Bézivin, J.-P. Diviseurs premiers de suites récurrentes non linéaires. (English summary) [Prime divisors of nonlinear recurrent sequences] 90a:11022
- Buzejeanu, Șerban Linear recurrences for the powers of a recurrent sequence. 90a:11023
- Chang, Hung Chih (with Li, Chia Sheng) On a recurrent sequence. 90b:11011
- Clarke, J. H. see Atanassov, Krassimir T.; et al., 90d:11024
- Corley, H. W. The convolved Fibonacci equation. 90f:11011
- Cseh, László (with Merényi, Imre) Recurrence relations for a power series. 90c:11011
- Gauthier, N. Derivation of a formula for $\sum x^k$. 90j:11016
- Goldstern, Martin (with Tichy, R. F.; Turnwald, Gerhard) Distribution of the ratios of the terms of a linear recurrence. 90d:11025
- Li, Chia Sheng see Chang, Hung Chih, 90b:11011
- Mallows, C. L. Identities satisfied by iterated polynomials and (Q, x) -binomial coefficients. 90c:11032
- Merényi, Imre see Cseh, László, 90c:11011
- Pihko, Jukka On a question of Tverberg. 90f:11019
- Shannon, A. G. see Atanassov, Krassimir T.; et al., 90d:11024
- Shorey, T. N. Ramanujan and binary recursive sequences. 90c:11033
- Shparlinskii, I. E. Distribution of values of recurrent sequences. 90k:11017
- Tichy, R. F. see Goldstern, Martin; et al., 90d:11025
- Turner, John Christopher Note on a family of Fibonacci-like sequences. 90f:11012
- Turnwald, Gerhard Weak uniform distribution of second-order linear recurring sequences. 90k:11018
- see also Goldstern, Martin; et al., 90d:11025
- Venturini, G. On the $3x+1$ problem. 90c:11020
- Wolfskill, J. Bounding squares in second order recurrence sequences. 90m:11027
- Yu, Chang An A general formula for the solution of inhomogeneous recurrences of order p . (Chinese) 90c:11034

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- Allouche, Jean-Paul (with Hajnal, P.; Shallit, Jeffrey) Analysis of an infinite product algorithm. 90f:68073
- Asveld, Peter R. J. Fibonacci-like differential equations with a polynomial nonhomogeneous part. 90h:34009
- Bennett, Larry see Necoechea, Alejandro, 90a:40001
- Bellinger, Richard C. The Mann-Shanks primality criterion in the Pascal- T triangle T_j . 90h:11016
- Brus, Tomek A recurrence formula for the distribution of the Wilcoxon rank sum statistic. 90c:62070
- Bui Minh Phong On super Lucas and super Lehmer pseudoprimes. 90a:11005
- Georgiou, Costas see Philippou, Andreas N., 90g:05018
- Hajnal, P. see Allouche, Jean-Paul; et al., 90f:68073
- Horadam, A. F. see Mahon, J. M., 90m:11030
- Kiss, P. (with Tichy, R. F.) A discrepancy problem with applications to linear recurrences. I. 90j:11060a
- (with Tichy, R. F.) A discrepancy problem with applications to linear recurrences. II. 90j:11060b
- Mahon, J. M. (with Horadam, A. F.) Third-order diagonal functions of Pell polynomials. 90m:11030

McNeill, R. B. On certain divisibility sequences. 90a:11028

Nagata, Shiro On computations of partial sums of binomial coefficients and related numbers. 90j:11019

Necochea, Alejandro (with Bennett, Larry) On a certain sequence of quotients of a sequence. 90a:40001

Philippou, Andreas N. (with Georgiou, Costas) Convolutions of Fibonacci-type polynomials of order K and the negative binomial distributions of the same order. 90g:05018

Shallit, Jeffrey see Allouche, Jean-Paul; et al., 90f:68073

Titchy, R. F. see Kiss, P., 90j:11060a and 90j:11060b

11B39 Fibonacci and Lucas numbers and polynomials

Agarwal, Ashok Kumar¹ Properties of a recurring sequence. 90d:11026

André-Jeannin, Richard Irrationalité de la somme des inverses de certaines suites récurrentes. (English summary) [The irrationality of the sum of reciprocals in certain recurrent sequences] 90b:11012

Atanassov, Krassimir T. On a generalization of the Fibonacci sequence in the case of three sequences. 90b:11013

Bui Minh Phong see Kiss, P., 90j:11017

Capocelli, Renato M. A note on Fibonacci trees and the Zeckendorf representation of integers. 90a:11024

Chang, Derek K. On circular Fibonacci binary sequences. 90m:11028

Dubois, François On r -generalized Fibonacci numbers. 90g:11022

Filippini, Piero see Freitag, Herta T., 90c:11035

Fishburn, Peter C. (with Odlyzko, Andrew M.; Roberts, Fred S.) Two-sided generalized Fibonacci sequences. 90k:11019

Freitag, Herta T. (with Filippini, Piero) On the F -representation of integral sequences $\{F_n^2/d\}$ and $\{L_n^2/d\}$ where d is either a Fibonacci or a Lucas number. 90c:11035

Frisk, J. A. (with Roberts, Ian T.) On sums of Fibonacci-type series. 90k:11020

Horadam, A. F. see Mahon, J. M., 90m:11030

Kiss, P. (with Bui Minh Phong) Weakly composite Lucas numbers. 90j:11017

— (with Mátys, Ferenc) An asymptotic formula for π . 90c:11036

Le, Mao Hua A necessary and sufficient condition for a class of second-order recurrences to contain squares. (Chinese. English summary) 90m:11029

Low, Jürgen Generalization of the Fibonacci sequence. (Danish. English summary) 90k:11021

Luo, Ming On triangular Fibonacci numbers. 90f:11013

Mahon, J. M. (with Horadam, A. F.) Third-order diagonal functions of Pell polynomials. 90m:11030

Mátys, Ferenc see Kiss, P., 90c:11036

Morrisson, John F. Fibonacci-like matrices. 90a:11025

Odlyzko, Andrew M. see Fishburn, Peter C.; et al., 90k:11019

Ribenboim, P. Square classes of Fibonacci and Lucas numbers. 90j:11018

Roberts, Fred S. see Fishburn, Peter C.; et al., 90k:11019

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Sami, Z. A sequence of numbers a_n^m . (Serbo-Croatian summary) 90f:11014

Sander, J. W. A remark on a theorem of Weinstein. 90b:11013

Shallit, Jeffrey A generalization of automatic sequences (extended abstract). (see 90f:68014)

Stakhov, A. P. The golden section in the measurement theory. 90d:11027

Vajda, Steven \star Fibonacci & Lucas numbers, and the golden section. 90b:11014

Zhu, De Gao Fibonacci numbers and $GL(2, F_p)$. (Chinese. English summary) 90m:11031

Items with secondary classifications in 11B39

Arkin, Joseph (with Arney, David C.; Bergum, Gerald E.; Burr, Stefan A.; Porter, Bruce J.) Recurring-sequence tiling. 90g:05064

Arney, David C. see Arkin, Joseph; et al., 90g:05064

Bergum, Gerald E. see Arkin, Joseph; et al., 90g:05064

Bicknell-Johnson, Marjorie Retrograde renegades and the Pascal connection: repeating decimals represented by Fibonacci and other sequences appearing from right to left. 90c:11013

Bruckman, Paul S. The generalized Zeckendorf theorems. 90k:11011

Bui Minh Phong see Jód, István, 90h:11025

Burr, Stefan A. see Arkin, Joseph; et al., 90g:05064

Chen, Xie Bin Number-theoretic properties of Lucas numbers and a sufficient condition for primality of a class of numbers. (Chinese) 90c:11016

Di Porto, Adina (with Filippini, Piero) A probabilistic primality test based on the properties of certain generalized Lucas numbers. 90f:11099

El-Basil, Sherif (with Klein, Douglas J.) Fibonacci numbers in the topological theory of benzenoid hydrocarbons and related graphs. 90h:92036

Feiglstock, Shalom Fibonacci and the rabbit population explosion. (Not in MR) Filippini, Piero see Di Porto, Adina, 90f:11099

Georgiou, Costas see Philippou, Andreas N., 90g:05018

Gurak, S. Cubic and biquadratic pseudoprimes of Lucas type. 90k:11166

Jód, István (with Bui Minh Phong) On two Diophantine equations concerning Lucas sequences. 90h:11025

Kimberling, Clark Fibonacci hyperboas. 90j:51028

Klein, Douglas J. see El-Basil, Sherif, 90h:92036

Makowski, Andrzej Stroecker's equation and Fibonacci numbers. 90a:11034

Mohanty, Shreedhara Prasada see Mohanty, Supriya, 90m:11039

Mohanty, Supriya (with Mohanty, Shreedhara Prasada) Pythagorean numbers. 90m:11039

Philippou, Andreas N. (with Georgiou, Costas) Convolutions of Fibonacci-type polynomials of order K and the negative binomial distributions of the same order. 90g:05018

Pihko, Jukka On a question of Tverberg. 90i:11019

Porter, Bruce J. see Arkin, Joseph; et al., 90g:05064

Protasi, M. (with Talamo, Maurizio) On the number of arithmetical operations for finding Fibonacci numbers. 90g:68069

Shorey, T. N. Ramanujan and binary recursive sequences. 90e:11033

Talamo, Maurizio see Protasi, M., 90g:68069

Tu, Pao Sheng A simple method which generates infinitely many congruence identities. 90m:11007

11B50 Sequences (mod m)

Jacobson, Eliot Almost uniform distribution of the Fibonacci sequence. 90b:11015

Korec, I. (with Znam, Š.) A note on the $3x+1$ problem. 90g:11023

Kwong, Y. H. Harris Minimum periods of binomial coefficients modulo M . 90i:11021

Somer, Lawrence Congruence relations for k th-order linear recurrences. 90c:11012

Znam, Š. see Korec, I., 90g:11023

Items with secondary classifications in 11B50

Boyar, Joan Inferring sequences produced by a linear congruential generator missing low-order bits. 90g:94012

Danešová, Yveta Vector-covering systems with four equal moduli. (Russian and Slovak summaries) 90b:11004

Hayashi, E. K. see Howard, F. T., 90m:11005

Howard, F. T. (with Hayashi, E. K.) Congruences for numbers of Ramanujan. 90m:11005

Rosochowicz, E. On weak uniform distribution of sequences of integers. 90k:11105

Ruzsa, Imre Z. On sets of weak uniform distribution. 90k:11106

Yang, Yan Ling Periodic sequences over a finite field F_p . (Chinese. English summary) 90j:11141

11B57 Farey sequences; the sequences $\{1^k, 2^k, \dots\}$

Strauch, Otto Some applications of Franel's integral. I. (Russian and Slovak summaries) 90d:11028

11B65 Binomial coefficients; factorials; q -identities

Atanassov, Krassimir T. One extremal problem. IV. 90k:11022

Bellinger, Richard C. The Mann-Shanks primality criterion in the Pascal- T triangle T_j . 90b:11016

Chao, Chong-Yun (with Zhang, Mou Cheng) On multinomial coefficients modulo a prime. 90b:11013

Knuth, Donald E. (with Wilf, Herbert S.) The power of a prime that divides a generalized binomial coefficient. 90d:11029

Nagata, Shiro On computations of partial sums of binomial coefficients and related numbers. 90j:11019

Volodin, N. A. Distribution mod p^n of polynomial coefficients. (Russian) 90i:11022

Wilf, Herbert S. see Knuth, Donald E., 90d:11029

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Items with secondary classifications in 11B65

Agarwal, Ashok Kumar¹ (with Andrews, George; Bressoud, David M.) The Bailey lattice. 90i:11113

Agrawal, M. K. see Parnami, J. C.; et al., 90k:11004

Alzer, Horst Über eine Verallgemeinerung der Bernoullischen Ungleichung. [On a generalization of the Bernoulli inequality] 90m:05013

Andrews, George see Agarwal, Ashok Kumar¹; et al., 90i:11113

Bressoud, David M. In the land of OZ. 90j:05012

— see also Agarwal, Ashok Kumar¹; et al., 90i:11113

Butzer, P. L. (with Hauss, M.; Schmidt, Michael) Factorial functions and Stirling numbers of fractional orders. 90m:33016

Chapman, Scott Integer valued polynomials and almost division algorithms. 90j:11023

Cusick, Thomas W. Recurrences for sums of powers of binomial coefficients. 90b:05007

Denis, R. Y. On certain multiple series and q -identities. 90j:05024

Garvan, F. G. (with Stanton, Dennis) Sieved partition functions and q -binomial coefficients. 90j:11102

Goodman, Fred (with O'Hara, Kathleen M.) On the Gaussian polynomials. 90j:05026a

Hauss, M. see Butzer, P. L.; et al., 90m:33016

Kwong, Y. H. Harris Minimum periods of binomial coefficients modulo M . 90i:11021

Macdonald, I. G. An elementary proof of a q -binomial identity. 90j:05026c

Marko, František Divisibility of binomial coefficients near a half-line and in convex sets. (Russian and Slovak summaries) 90d:05009

O'Hara, Kathleen M. see Goodman, Fred, 90j:05026a

Parnami, J. C. (with Agrawal, M. K.; Rajwade, A. R.) Some linear relations between certain binomial coefficients modulo a prime. 90k:11004

Rajwade, A. R. see Parnami, J. C.; et al., 90k:11004

Schmidt, Michael see Butzer, P. L.; et al., 90m:33016

Stanton, Dennis see Garvan, F. G., 90j:11102

Yeung, Kit Ming On congruences for binomial coefficients. 90i:11143

Zeilberger, Doron A one-line high school algebra proof of the unimodality of the Gaussian polynomials $\begin{bmatrix} n \\ k \end{bmatrix}_q$ for $k < 20$. 90j:05026b

11B68 Bernoulli and Euler numbers and polynomials

Bhattacharjee, Nil Ratan Extension of Bernoulli and Euler numbers. (Bengali summary) 90d:11030

Callan, David Letter to the editor: "A new approach to Bernoulli polynomials" [Amer. Math. Monthly 95 (1988), no. 10, 905-911; MR 90c:11014] by D. H. Lehmer. 90g:11024

Clarke, Francis The universal von Staudt theorems. 90a:11026

Diag, I. Generalization of the von Staudt-Clausen theorem. 90g:11025

Granville, Andrew (with Shank, H. S.) Defining Bernoulli polynomials in $\mathbb{Z}/p\mathbb{Z}$ (a generic regularity condition). 90f:11015

Kiryama, Hiroshi see Origuchi, Tadashi; et al., 90j:11026

Kazuhiko, Kazuhiko On a p -adic interpolating power series of the generalized Euler numbers. 90j:11020

Lehmer, D. H. A new approach to Bernoulli polynomials. 90c:11014

— see also Callan, David, 90g:11024

Matsuoka, Yoshio see Origuchi, Tadashi; et al., 90j:11026

Origuchi, Tadashi (with Kiriyama, Hiroshi; Matsuoka, Yoshio) A table of the explicit formulas for the sums of powers $S_p(n) = \sum_{k=1}^n k^p$ for $p = 1(1)61$. II. 90j:11026

Sándor, József Remarks on Bernoulli polynomials and numbers. 90h:11017

- Schoenberg, J. Eine explizite Formel für $\sum_{n \leq N} B_2(\{n\alpha\})$. (English summary) [An explicit formula for $\sum_{n \leq N} B_2(\{n\alpha\})$] 90j:11021
- Shank, H. S. see Granville, Andrew, 90j:11015
- Trakhtman, Yu. A. Divisibility of differences that consist of binomial coefficients. (Russian) 90m:11032
- Vasilev, Miladen V. Relations between Bernoulli numbers and Euler numbers. 90g:11027
- Items with secondary classifications in 11B68
- Chen, Jing Run (with Li, Jian Yu²) On the sums of powers of natural numbers. (Chinese summary) 90i:11108
- Ernvall, Reijo A generalization of Herbrand's theorem. 90e:11159
- Gekeler, Ernst-Ulrich Some new identities for Bernoulli-Carlitz numbers. 90j:11128
- Gould, H. W. (with Kerr, W. Y.) Characterization of polynomial systems satisfying generalized convolution differential-difference equations. 90f:34104
- Kerr, W. Y. see Gould, H. W., 90f:34104
- Leeming, David J. The real zeros of the Bernoulli polynomials. 90k:33029
- Li, Jian Yu² see Chen, Jing Run, 90i:11108
- Lao, Jian Jin Dai Xu numbers. (Chinese) 90i:01004
- Nohmi, Masaya On a convolution on the space of p -adic functions. 90k:11159
- Rai, V. S. (with Singh, Surya Narain) On extended Bernoulli and Euler polynomials. 90k:05016
- Ray, Nigel Stirling and Bernoulli numbers for complex oriented homology theory. 90f:55010
- Singh, Surya Narain see Rai, V. S., 90k:05016
- Zhou, Yun Shi Higher-dimensional Euler-Maclaurin summation formulas. (Chinese. English summary) 90b:40007

11B73 Bell and Stirling numbers

Items with secondary classifications in 11B73

- Butzer, P. L. (with Hauss, M.; Schmidt, Michael) Factorial functions and Stirling numbers of fractional orders. 90m:33016
- Hauss, M. see Butzer, P. L.; et al., 90m:33016
- Hayashi, E. K. see Howard, F. T., 90m:11005
- Howard, F. T. (with Hayashi, E. K.) Congruences for numbers of Ramanujan. 90m:11005
- Kwong, Y. H. Harris Minimum periods of $S(n, k)$ modulo M . 90f:05010
- Ray, Nigel Stirling and Bernoulli numbers for complex oriented homology theory. 90f:55010
- Schmidt, Michael see Butzer, P. L.; et al., 90m:33016
- Xu, Li Zhi Theory and application of generalized Stirling number pairs. 90i:05005

11B75 Other combinatorial number theory

- Alon, Noga (with Spencer, Joel H.) Ascending waves. 90i:11023
- Engel, Konrad On the Fibonacci number of an $m \times n$ lattice. 90m:11033
- Jia, Xing De On B_k -sequences. (Chinese. English summary) 90j:11022
- Kwong, Y. H. Harris Periodicities of a class of infinite integer sequences modulo M . 90b:11014
- Spencer, Joel H. see Alon, Noga, 90i:11023
- Turnwald, Gerhard On the nonvanishing of homogeneous product sums. 90h:11018

Items with secondary classifications in 11B75

- Cameron, Peter J. Some sequences of integers. 90i:05011
- Erdős, Paul Some old and new problems on additive and combinatorial number theory. 90i:11016
- Frankl, Peter (with Graham, R. L.; Rödl, V.) On the distribution of monochromatic configurations. 90b:05019
- Graham, R. L. see Frankl, Peter; et al., 90b:05019
- Kleitman, Daniel Divisors without unit-congruent ratios. 90e:05016
- Leth, Steven C. Some nonstandard methods in combinatorial number theory. 90e:03067
- McDaniel, Wayne L. (with Yates, Samuel) The sum of digits function and its application to a generalization of the Smith number problem. 90j:11014
- Nathanson, Melvyn B. Additive problems in combinatorial number theory. 90j:11015
- Orlowski, Marian (with Pachter, M.) An algorithm for the determination of a longest increasing subsequence in a sequence. 90g:68053
- Pachter, M. see Orlowski, Marian, 90g:68053
- Rödl, V. see Frankl, Peter; et al., 90b:05019
- Yates, Samuel see McDaniel, Wayne L., 90j:11014

11B83 Other special sequences and polynomials

- Agarwal, P. K. (with Sharir, Micha; Shor, Peter) Sharp upper and lower bounds on the length of general Davenport-Schinzel sequences. 90m:11034
- Chowdhury, M. R. Über die Zahlenfolge $n! + k$, $2 \leq k \leq n$. [On the numerical sequence $n! + k$, $2 \leq k \leq n$] 90g:11028
- Clark, Dean S. (with Lewis, James T.) Avoiding-sequences with minimum sum. 90f:11016
- Daróczy, Zoltán (with Kátai, Imre) Generalized number systems in the complex plane. 90f:11017
- Di Porto, Adina (with Filipponi, Piero) More on the Fibonacci pseudoprimes. 90g:11029
- Duvall, Paul (with Vaughan, Theresa P.) Pell polynomials and a conjecture of Mahon and Horadam. 90b:11015
- Eggleton, Roger B. (with Guy, Richard K.) Catalan strikes again! How likely is a function to be convex? 90a:11027
- Filipponi, Piero see Di Porto, Adina, 90g:11029
- Guy, Richard K. see Eggleton, Roger B., 90a:11027
- Jóó, István On the rearrangements of numerical sequences. 90k:11023
- Kátai, Imre see Daróczy, Zoltán, 90f:11017
- Lewis, James T. see Clark, Dean S., 90f:11016
- McNeill, R. B. On certain divisibility sequences. 90a:11028

- Misiurewicz, M. (with Schinzel, A.) On n numbers on a circle. 90i:11024
- Merikawa, Ryozo Disjoint systems of rational Beatty sequences. 90m:11035
- Disjoint sequences generated by the bracket function. IV. 90m:11036
- Nathanson, Melvyn B. Sums of polygonal numbers. 90m:11037
- Schinzel, A. see Misiurewicz, M., 90i:11024
- Schissel, Eric Characterizations of three types of completeness. 90k:11024
- Sharir, Micha see Agarwal, P. K.; et al., 90m:11034
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- Turner, John Christopher The alpha and the omega of the Wythoff pairs. 90a:11029
- Vaughan, Theresa P. see Duvall, Paul, 90b:11015

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- Alon, Noga (with Maass, Wolfgang) Meanders and their applications in lower bounds arguments. 90b:68047
- Bourgain, J. Pointwise ergodic theorems for arithmetic sets. 90k:28030
- Cobelli, Cristian (with Văjaitu, Marian; Zaharescu, Alexandru) Graham's conjecture under Riemann hypothesis. 90e:11064
- Daróczy, Zoltán (with Kátai, Imre) On differentiable additive functions. 90a:26007
- Erdős, Paul (with Lacampagne, C. B.; Selfridge, J. L.) Prime factors of binomial coefficients and related problems. 90f:11009
- Furstenberg, Hillel (with Katznelson, Yitzhak) A density version of the Hales-Jewett theorem for $k = 3$. 90k:05003
- see also Bourgain, J., 90k:28030
- Gillespie, Frank S. A generalization of Fermat's little theorem. 90e:11006
- Golomb, S. W. Distributions of periods and frequencies of runs in random binary sequences. 90i:60008
- Gouyon-Beauchamps, D. (with Vauquelin, Bernard) Deux propriétés combinatoires des nombres de Schröder. (English summary) [Two combinatorial properties of the Schröder numbers] 90b:05009
- Grayson, Daniel R. The arithogeometric mean. 90g:11071
- Horadam, A. F. see Mahon, J. M., 90m:11030
- Horváth, Miklós On additive functions. 90k:11008
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- Aparicio Bernardo, Emiliano On the asymptotic structure of the polynomials of minimal Diophantine deviation from zero. 90b:41010
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Shorey, T. N. Integers with identical digits. 90j:11027

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de Weger, B. M. M. ★ Algorithms for Diophantine equations. 90m:11205

Wolfskill, J. Bounding squares in second order recurrence sequences. 90m:11027

11D68 Rational numbers as sums of fractions

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11D72 Equations in many variables [see also 11P55]

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— (with Gaál, István; Györy, K.) On the numbers of solutions of decomposable polynomial equations. 90i:11036

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Srinivasa Rao, K. (with Rajeswari, V.) Polynomial zeros of the $9-j$ coefficient. 90i:11036

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Hausman, Miriam (with Shapiro, Harold N.) On Ramanujan's right triangle conjecture. 90c:11049

Lang, Serge Old and new conjectured Diophantine inequalities. 90k:11032

Mazurov, M. E. A geometric method for studying solutions of Diophantine inequalities. (Russian) 90k:11033

Mueller, Julia Good rational approximation derived from Thue's inequality. 90d:11043

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11D79 Congruences in many variables

Chalk, John H. H. Polynomial congruences over incomplete residue systems, modulo k . 90c:11050

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Fujiwara, Masahiko Counting points in a small box on varieties. 90d:11075

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Drimbe, Mihai Onacu Generalization of representation theorem of Erdős and Surányi. 90b:11029

Golovizin, V. V. (with Maksimova, I. N.) A square-free representation of numbers by sums of squares in real number fields. (Russian) (see 90b:11001)

Maksimova, I. N. *see* Golovizin, V. V., (90b:11001)

Items with secondary classifications in 11D85

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Goetgheluck, Pierre On cubic polynomials giving many primes. 90j:11014

Israilov, M. I. Asymptotic expansion of the number of representations of numbers by a sum of polynomials with a growing number of terms. (Russian) 90k:11131

Kitakia, Yoshiyuki Some remarks on representations of positive definite quadratic forms. 90k:11036

Liu, Ming Chit (with Tsang, Kai Man) Small prime solutions of linear equations. 90i:11112

Metzler, Hans Über die Anzahl der Gitterpunkte auf der Kreislinie mit $x^2 + y^2 = z$. [On the number of lattice points on the circle with $x^2 + y^2 = z$] 90k:11025

Pethő, Attila On the representation of 1 by binary cubic forms with positive discriminant. 90k:11027

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Tsang, Kai Man *see* Liu, Ming Chit, 90i:11112

Vepkhvadze, T. V. Representation of numbers by positive quadratic forms with five variables. (Russian) 90d:11045

Zannier, Umberto On a theorem of Birch concerning sums of distinct integers taken from certain sequences. 90b:11011

Zenklin, A. A. Waring's problem: $g(1, 4) = 21$ for fourth powers of positive integers. 90k:11127

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Atkinson, O. D. (with Cook, Roger J.) Pairs of additive congruences to a large prime modulus. 90c:11051

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— *see also* Atkinson, O. D., 90c:11051

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Väänänen, K. (with Xu, Guang Shan) On the arithmetic properties of the values of G -functions. 90g:11095

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11D99 None of the above, but in this section

Kanemitsu, S. (with Shirasaka, Shigeshi) On the trigonometric Diophantine equation $l' \tan(k'/m)\pi = l \tan(k/m)\pi$. 90g:11042

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Ribenboim, P. Equations in groups, with special emphasis on localization and torsion. II. 90j:20069

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Svozil, Karl The mathematical foundations of physical randomness and indeterminism. 90k:81028

Thomason, Andrew A graph property not satisfying a "zero-one law". 90c:05051

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11Exx Forms and linear algebraic groups {For quadratic forms in linear algebra, see 15A63.}

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11E04 Quadratic forms over general fields

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Kraskemper, Martin (with Scharlau, Winfried) On positive quadratic forms. 90b:11037

Kucharz, W. Symplectic bilinear forms on affine real algebraic surfaces. 90e:14022

— see also Bochnak, J., 90k:14018

Margulis, G. A. Discrete subgroups and ergodic theory. 90k:22013a

— see also Dani, S. G., 90k:22013b

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11E12 Quadratic forms over global rings and fields

Bannai, Etsuko Positive definite unimodular lattices with trivial automorphism groups. 90j:11030

Beale, Stephen (with Harrison, D. K.) A computation of the Witt index for rational quadratic forms. 90g:11045

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Estes, Dennis R. (with Nipp, Gordon) Factorization in quaternion orders. 90m:11048

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Yü, Wen Ch'ing On the values at negative half-integers of the Dedekind zeta function of a real quadratic field. 90a:11137

11E16 General binary quadratic forms

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Faiziev, R. F. New identities for the product of sums of four squares and their applications. (Russian. Tajik summary) 90a:11045

Lam, K. Y. (with Yiu, P. Y. H.) Geometry of normed bilinear maps and the 16-square problem. 90g:11047

Leop, David B. (with Tignol, J.-P.; Vast, N.) The level of division algebras over local and global fields. 90b:11038

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Simon, Odile Aspects quantitatifs de Nullstellensätze et de Positivstellensätze. Nombres de Pythagore. [Quantitative aspects of Nullstellensätze and Positivstellensätze. Pythagorean numbers] 90f:11024

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11E32 Reduction theory of quadratic forms [See mainly 11H55]

- Kubenski, M. N. Theory of rotations. (Russian) (see 90h:11001)
- Lachaud, Gilles Continued fractions, binary quadratic forms, quadratic fields, and zeta functions. 90g:11032
- Items with secondary classifications in 11E32
- Conway, John Horton (with Sloane, N. J. A.) Low-dimensional lattices. IV. The mass formula. 90a:11074
- (with Sloane, N. J. A.) Low-dimensional lattices. V. Integral coordinates for integral lattices. 90m:11100
- Dani, S. G. (with Margulis, G. A.) Values of quadratic forms at primitive integral points. (French summary) 90d:11000
- Margulis, G. A. see Dani, S. G., 90d:11000
- Mostow, G. D. Selberg's work on the arithmeticity of lattices and its ramifications. 90h:22010
- Mushtaq, Q. Reduced indefinite binary quadratic forms and orbits of the modular group. (Serbo-Croatian summary) 90d:11044
- Sloane, N. J. A. see Conway, John Horton, 90a:11074 and 90m:11100
- Teterin, Yu. G. An approach to reduction theories. (Russian) (see 90h:11001)
- Yü, Wên Ch'ing On the values at nonpositive integers of the Dedekind zeta function of a real quadratic field. 90e:11177

11E36 Distribution of lattice points on quadrics [See mainly 11P21]

- Duke, W. Lattice points on ellipsoids. 90e:11052
- (with Schulze-Pillot, Rainer) Representation of integers by positive ternary quadratic forms and equidistribution of lattice points on ellipsoids. 90m:11051
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11E39 Bilinear and Hermitian forms

- Bayer-Fluckiger, E. (with Kearton, C.; Wilson, S. M. J.) Hermitian forms in additive categories: finiteness results. 90h:11038
- Hashimoto, Ki-ichiro (with Koseki, Harutaka) Class numbers of positive definite binary and ternary unimodular Hermitian forms. 90k:11039
- Kearton, C. see Bayer-Fluckiger, E.; et al., 90k:11038
- Koseki, Harutaka see Hashimoto, Ki-ichiro, 90k:11039
- Lewis, D. W. Hermitian forms over odd-dimensional algebras. 90g:11048
- Radakov, A. N. Integer-valued bilinear forms and vector bundles. 90c:11024
- Sinclair, Parvin Hermitian forms over Euclidean rings. 90k:11039
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- Heintz, Joos On the computational complexity of polynomials and bilinear mappings. A survey. (see 90d:94001)
- Kucharz, W. Symplectic bilinear forms on affine real algebraic surfaces. 90e:14022
- Symplectic complex bundles over real algebraic four-folds. 90k:14021
- Levine, J. P. Metabolic and hyperbolic forms from knot theory. 90h:57027
- Marques Pereira, R. A. Real and holomorphic Susy algebras. 90k:17002
- Satarov, Zh. S. Defining relations in a degenerate elementary unitary group over a quadratic extension of an ordered Euclidean field. 90a:20104
- Shastri, Parvati Witt groups of algebraic integers. 90d:11053
- Urbke, Tobiaske Dynkin graphs and combinations of singularities on plane sextic curves. 90e:14035

11E41 Class numbers of quadratic and Hermitian forms

- Hardy, Kenneth (with Williams, Kenneth S.) The class number of pairs of positive-definite binary quadratic forms. 90g:11049
- Hashimoto, Ki-ichiro (with Koseki, Harutaka) Class numbers of definite unimodular Hermitian forms over the rings of imaginary quadratic fields. 90g:11050
- Koseki, Harutaka see Hashimoto, Ki-ichiro, 90g:11050
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- Hashimoto, Ki-ichiro (with Koseki, Harutaka) Class numbers of positive definite binary and ternary unimodular Hermitian forms. 90k:11039
- Hsia, J. S. (with Hung, D. C.) Even unimodular 8-dimensional quadratic forms over $\mathbb{Q}(\sqrt{2})$. 90c:11023
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- Smith, Victor ★ Topological methods in Galois representation theory. 90e:12005
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- Andrianov, Anatoli Nikolaevich Dirichlet series that correspond to representations of zero by indefinite quadratic forms. (Russian) 90m:11052
- Gérardin, Paul (with Lin, Ts'ung Yüan) An identity involving quadratic characters. 90m:11053
- Kitaoka, Yoshiyuki Modular forms of degree n and representation by quadratic forms. V. 90c:11053
- Lin, Ts'ung Yüan see Gérardin, Paul, 90m:11053
- Ono, Takashi On some arithmetic properties of certain quadratic fibrations. 90e:11054
- Sato, Fumihiko The Hamburger theorem for the Epstein zeta functions. 90f:11025
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- Hironaka, Yumiko (with Sato, Fumihiko) Spherical functions and local densities of alternating forms. 90c:11029
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- Rallis, Stephen see Kudla, Stephen S., 90e:11059 and 90c:11060
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11E57 Classical groups [see also 14Lxx, 20Gxx]

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- James, Donald G. Representations of anisotropic unitary groups. II. 90k:11041
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- Li, Shang Zhi Maximality of symplectic groups over fields in linear groups. (Chinese) (Not in MR)
- Tomanov, G. M. On the congruence-subgroup problem for some anisotropic algebraic groups over number fields. 90m:11054
- Xu, Fei A remark on spinor norms of local integral rotations. I. 90c:11025
- Items with secondary classifications in 11E57
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- Chernousov, V. I. Projective simplicity of some groups of rational points over algebraic number fields. 90g:20065
- (Dieudonné, Jean) see Hahn, Alexander J., 90i:20002
- Feng, Hong Automorphisms of O_n^{an} over local rings. (Chinese. English summary) 90g:20066
- Gow, R. Even unimodular lattices associated with the Weil representation of the finite symplectic group. 90f:20009
- Hahn, Alexander J. (with O'Meara, O. Timothy) ★ The classical groups and K -theory. 90c:20002
- Howe, Roger E. Remarks on classical invariant theory. 90h:22015a
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- Huo, Yuan Ji see Zou, Li Guo, 90g:20068
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- Knus, M.-A. Pfaffians and quadratic forms. 90a:11050
- Li, Shang Zhi Irreducible subgroups of $SL(n, K)$ generated by root subgroups. 90h:20068
- Lounesto, Pertti see Ahlfors, L. V., 90m:15044
- MacLachlan, N. (with Waterman, P. L.; Wielenberg, N. J.) Higher-dimensional analogues of the modular and Picard groups. 90b:11039
- Mason, A. W. On GL_2 of a local ring in which 2 is not a unit. II. 90a:20090
- O'Meara, O. Timothy see Hahn, Alexander J., 90c:20002
- Panin, I. A. Stabilization for orthogonal and symplectic algebraic K -theories. (Russian) 90g:20067
- Ronan, M. A. ★ Lectures on buildings. 90j:20001
- Tomanov, G. M. Congruence subgroup problem for groups of type G_2 . 90i:20049
- Vaserstein, L. N. Normal subgroups of classical groups over rings and gauge groups. 90c:20041
- Varilov, N. A. Linear groups that are generated by one-parameter groups of one-dimensional transformations. 90c:20057
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- Wielenberg, N. J. see MacLachlan, N.; et al., 90b:11039
- Zhang, Yong Zheng Automorphisms of $PO_2^*(V)$ over decomposable \mathfrak{p} -surjective rings. (Chinese. English summary) 90c:20058
- Two-dimensional unitary groups with nonzero Witt index over commutative semilocal rings. (Chinese. English summary) 90h:20069
- Zou, Li Guo (with Huo, Yuan Ji) Expressing simi symplectic transvections as products of symplectic transvections. (Chinese. English summary) 90g:20068

11E70 K -theory of quadratic and Hermitian forms

Hambleton, Ian (with Madsen, I.) On the discriminants of forms with Arf invariant one. 90f:11026

Madsen, I. see Hambleton, Ian, 90f:11026

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Jardine, J. F. Universal Hasse-Witt classes. 90h:14027

Li, Fu An Isomorphisms of Steinberg groups over commutative rings. 90d:20088

Tandon, Rajat Computing the number of ways of representing primes by a norm form. 90h:11034

11E72 Galois cohomology of linear algebraic groups

[see also 20G10]

Borovoi, M. V. Strong approximation for homogeneous spaces. (Russian. English summary) 90j:11033

Chernousov, V. I. The Hasse principle for groups of type E_6 . 90m:11055

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Monastyrnyi, A. P. (with Yanchevskii, V. I.) On the Whitehead groups and the Kneser-Tits conjecture for spinor groups. 90i:11040

Rapinchuk, A. S. On the congruence subgroup problem for algebraic groups. 90i:11041

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Chernousov, V. I. Groups of rational points of algebraic groups over algebraically nonclosed fields. (Russian) 90k:20077

Ford, Timothy J. On the Brauer group of $k[x_1, \dots, x_n, 1/f]$. 90d:13005

Kasai, Shin-ichi Universal transitivity of certain classes of reductive prehomogeneous vector spaces. 90i:20044

Kimura, Tatsuo Complex powers on p -adic fields and a resolution of singularities. 90f:11097

Kottwitz, Robert E. Tamagawa numbers. 90i:11075

Morishita, Masamori Iwasawa theoretical residue formulas for algebraic tori. 90i:11120

11E76 Forms of degree higher than two

Dixmier, Jacques (with Lazard, D.) Minimum number of fundamental invariants for the binary form of degree 7. 90d:11046

Dür, Arne On computing the canonical form for a binary form of odd degree. 90i:11042

Kanzaki, Teruo (with Watanabe, Yutaka) Determinants of r -fold symmetric multilinear forms. 90g:11052

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Leung, Ka Hin Positive semidefinite forms over ordered skew fields. 90f:11027

Nakagawa, Jin Binary forms and orders of algebraic number fields. 90k:11042

Reznick, Bruce Forms derived from the arithmetic-geometric inequality. 90i:11043

Rollero, Aldo More on binary forms of degrees 3, 4 and certain varieties associated with them. (Italian. English summary) 90d:11047

Watanabe, Yutaka see Kanzaki, Teruo, 90g:11052

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Colliot-Thélène, Jean-Louis (with Ojanguren, Manuel) Variétés unirationnelles non rationnelles: au-delà de l'exemple d'Artin et Mumford. [Nonrational unirational varieties: beyond the example of Artin and Mumford] 90m:14012

Cook, Roger J. Small fractional parts of additive forms. 90g:11087

Evertse, Jan-Hendrik (with Györy, K.) Thue-Mahler equations with a small number of solutions. 90j:11026

Fujiwara, Masahiko Counting points in a small box on varieties. 90d:11075

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Kang, Ming Chang Constructions of Brauer-Severi varieties and norm hypersurfaces. 90j:14029

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Rollero, Aldo On certain varieties associated to binary forms of degrees 3, 4. (Italian. English summary) 90d:14044

Saiberg, Per On the arithmetic of conic bundle surfaces. 90m:11093a

— Erratum: "On the arithmetic of conic bundle surfaces". 90m:11093b

Skubenko, B. F. Minima of a decomposable cubic form in three variables. (Russian) 90a:11070

Wang, Yuan Diophantine inequalities for forms in an algebraic number field. 90i:11021

11E81 Algebraic theory of quadratic forms; Witt groups and rings

[see also 19G12, 19G24]

Becker, Eberhard (with Gondard, Danielle) On rings admitting orderings and 2-primary chains of orderings of higher level. 90h:11033

Bos, Rik A structure theorem for abstract Witt rings containing rigid elements. 90i:11044

Fitzgerald, Robert W. Gorenstein Witt rings. 90d:11048

— Ideal class groups of Witt rings. 90g:11053

Gondard, Danielle see Becker, Eberhard, 90h:11033

Iwan, Andrzej (with Wowk, Czesław) Basic part of Witt rings of elementary type. 90d:11049

Jiang, Di Hua The structure of the Grothendieck groups of almost unimodular quadratic lattices. (Chinese) 90h:11034

Juožapavičius, Algimantas Symbolic computation for Witt rings. 90m:11056

Kraskemper, Martin (with Scharlau, Winfried) On positive quadratic forms. 90h:11037

— Algebraic systems of quadratic forms of number fields and function fields. 90h:11035

Lam, T. Y. Fields of u -invariant 6 after A. Merkurjev [A. S. Merkur'ev]. 90m:11057

Leep, David B. (with Wadsworth, Adrian R.) The transfer ideal of quadratic forms and a Hasse norm theorem mod squares. 90a:11047

Lewis, D. W. New proofs of the structure theorems for Witt rings. 90d:11050

Mammone, P. Algèbres de quaternions et formes quadratiques en caractéristique 2. [Quaternion algebras and quadratic forms of characteristic 2] 90a:11048

Marshall, Murray Remarks on a certain idempotency property of Witt rings. 90d:11051

— A simple system of axioms for spaces of signatures. 90d:11052

Merkur'ev, A. S. Kaplansky's conjecture in the theory of quadratic forms. (Russian) 90m:11058

— see also Lam, T. Y., 90m:11057

Mulcahy, Colin A representation theorem for higher level reduced Witt rings. 90a:11049

Pfister, Albrecht Systeme quadratischer Formen. III. [Systems of quadratic forms. III] 90i:11026

Powers, Victoria Finite spaces of signatures. 90h:11036

Scharlau, Winfried see Kraskemper, Martin, 90h:11037

Shastri, Parvati Witt groups of algebraic integers. 90d:11053

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Ware, Roger Automorphisms of Pythagorean fields and their Witt rings. 90g:11054

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Arason, Jón Kr. (with Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. II. 90a:11043

Beale, Stephen (with Harrison, D. K.) A computation of the Witt index for rational quadratic forms. 90g:11045

Bon Durant, William R. Spinor norms of rotations of local integral quadratic forms. 90k:11035

Conner, P. E. (with Yui, Noriko) The additive characters of the Witt ring of an algebraic number field. 90a:11130

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Greither, Cornelius (with Harrison, D. K.) On constructions similar to the Burnside ring for commutative rings and profinite groups. 90d:13007

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Hellegouarch, Yves Positive definite binary quadratic forms over $k[X]$. 90i:11037

Hornix, E. A. M. Field invariants under totally positive quadratic extensions. 90a:11044

Iwakami, Tatsuo Valuations of a quasi-Pythagorean field. 90g:12011

Jacob, Bill (with Rost, Markus) Degree four cohomological invariants for quadratic forms. 90g:11044

— (with Ware, Roger) A recursive description of the maximal pro-2 Galois group via Witt rings. 90h:11127

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Jardine, J. F. The homotopical foundations of algebraic K -theory. 90j:55029

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Micali, A. (with Villamayor, Orlando E.) Formes quadratiques sur un corps de caractéristique 2. (English summary) [Quadratic forms over a field of characteristic 2] 90a:11051

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Parimala, R. Witt groups of affine three-folds. 90a:14006

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11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

Knus, M.-A. Pfaffians and quadratic forms. 90a:11050

Micali, A. (with Villamayor, Orlando E.) Formes quadratiques sur un corps de caractéristique 2. (English summary) [Quadratic forms over a field of characteristic 2] 90a:11051

Villamayor, Orlando E. see Micali, A., 90a:11051

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Bayer, Pilar Embedding problems with kernel of order two. 90i:12004

Benn, I. M. (with Tucker, R. W.) $SO(r+2, r)$ pure spinors. 90b:53015

— (with Tucker, R. W.) Representing spinors with differential forms. 90f:53030

Coquereaux, R. Spinors, reflections and Clifford algebras: a review. 90i:15039

DeWitt-Morette, Cécile Topological obstructions to Pin structures. 90b:53030

Kanzaki, Teruo Totally real commutative algebras. 90j:13014

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Moresi, Remo Metabolische und Wittsche Zerlegungen in R_0 -dimensionalen hermiteschen Räumen. [Metabolic and Witt decompositions in R_0 -dimensional Hermitian spaces] 90i:15009

Quebbemann, Heinz-Georg On extension of quadratic modules from affine to projective spaces. 90h:14024

Tucker, R. W. see Benn, I. M., 90b:53015 and 90f:53030

11E92 Integer matrices [see also 15A36]

Bitter, Michael Some properties of the unimodular group in \mathbb{R}^2 . 90g:11055

Neumann, Walter D. On bilinear forms represented by trees. 90m:11059

Items with secondary classifications in 11E92

Bradford, R. J. Hermite normal forms for integer matrices. 90m:15018

11E95 p -adic theory

Hironaka, Yumiko (with Sato, Fumihiro) Spherical functions and local densities of alternating forms. 90c:11029

— Spherical functions of Hermitian and symmetric forms. I. 90c:11027

— Spherical functions of Hermitian and symmetric forms. III. 90c:11028

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Aubert, Anne-Marie Correspondance de Howe et sous-groupes parahoriques. [Howe correspondence and parahoric subgroups] 90c:22053

Kitaoka, Yoshiyuki Local densities of quadratic forms. 90f:11022

11E99 None of the above, but in this section

Items with secondary classifications in 11E99

Grimmer, Haas Coincidence orientations of grains in rhombohedral materials. (Not in MR)

Moresi, Remo Metabolische und Wittsche Zerlegungen in \mathbb{R}_0 -dimensionalen hermiteschen Räumen. [Metabolic and Witt decompositions in \mathbb{R}_0 -dimensional Hermitian spaces] 90c:15009

Terasama, Tomohide Complete intersections of hypersurfaces—the Fermat case and the quadric case. 90f:14011

Tesser, Steven Representations of a Clifford algebra that are Azumaya algebras and generate the Brauer group. 90b:16007

11Fxx Discontinuous groups and automorphic forms [see also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]

(Hashimoto, Ki-ichiro) see Automorphic forms and geometry of arithmetic varieties, 90k:11043

(Namikawa, Yukihiko) see Automorphic forms and geometry of arithmetic varieties, 90k:11043

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Number Theory and Automorphic Forms ★ Seisūron to hokeikeishiki. (Japanese) [Number theory and automorphic forms] 90d:11054

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Apostol, Tom M. ★ Modular functions and Dirichlet series in number theory. 90j:11001

(Chacel, Laurent) see Automorphic forms, Shimura varieties, and L -functions, 90j:11002 and 90j:11003

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11F03 Modular and automorphic functions

Berndt, Bruce C. (with Biagioli, Anthony J.; Purtilo, James M.) Ramanujan's modular equations of "large" prime degree. 90b:11038

Biagioli, Anthony J. see Berndt, Bruce C.; et al., 90b:11038

Cohn, Harvey Iteration of two-valued modular equations. 90k:11044

— Singular moduli and modular equations for Fricke's cases. 90k:11045

Diaz, Guy (with Philibert, Georges) Growth properties of the modular function j . 90c:11056

Nishioka, Keiji A conjecture of Mahler on automorphic functions. 90b:11037

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Platetski-Shapiro, I. I. The existence of Maass cusp forms and Kloosterman sums. 90g:11056

Purtilo, James M. see Berndt, Bruce C.; et al., 90b:11038

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Bailey, D. H. see Borwein, J. M.; et al., 90d:11143

Berndt, Bruce C. ★ Ramanujan's notebooks. Part II. 90b:01039

Borwein, J. M. (with Borwein, P. B.; Bailey, D. H.) Ramanujan, modular equations, and approximations to π , or How to compute one billion digits of π . 90d:11143

Borwein, P. B. see Borwein, J. M.; et al., 90d:11143

Dorman, David R. Singular moduli, modular polynomials, and the index of the closure of $\mathbb{Z}[j(\tau)]$ in $\mathbb{Q}(j(\tau))$. 90k:11149

Gashkov, I. B. (with Sidel'nikov, V. M.) Codes that are connected with the group of fractional-linear transformations. 90c:94027

Harada, Koichiro (with Lang, Mong-Lung) Some elliptic curves arising from the Leech lattice. 90g:11072

Joyce, G. S. On the hard-hexagon model and the theory of modular functions. 90c:82055

Knopp, M. I. Generation of the graded ring of automorphic forms on the Hecke groups. 90c:11057

Kolke, Masao Moonshine. Simple groups and unusual relations to automorphic functions. (Japanese) 90c:20023

Kono, Shuji On Kronecker's limit formula for certain biquadratic fields. 90a:11136

Koo, Ja Kyung Quotients of theta series as rational functions of J and λ . 90k:11053

Kubota, Tomio On a functional equation involving Kloosterman sums. 90a:11060

Lang, Mong-Lung see Harada, Koichiro, 90g:11072

Lecacheux, Odile Unités d'une famille de corps cycliques réelles de degré 6 liés à la courbe modulaire $X_1(13)$. (English summary) [Units of a family of real cyclic fields of degree 6 associated with the modular curve $X_1(13)$] 90f:11062

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Masik, Bernard Parameters for Fuchsian groups. I. Signature (0, 4). 90g:30042

Mathur, Samir D. (with Mukhi, Sunil; Sen, Ashoke) On the classification of rational conformal field theories. 90b:81134

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Siegel, C. L. ★ Topics in complex function theory. Vol. I. 90b:30002

— ★ Topics in complex function theory. Vol. II. 90b:30003

(Solitar, D.) see Siegel, C. L., 90b:30002

(Tretkoff, M.) see Siegel, C. L., 90b:30003

11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

MacLachlan, C. (with Waterman, P. L.; Wielenberg, N. J.) Higher-dimensional analogues of the modular and Picard groups. 90b:11039

Newman, Morris An asymptotic result for subgroups of $SL(2, \mathbb{Z})$ of level 2. 90a:11052

Takagi, Toshikazu Classification of normal congruence subgroups of $GL(\sqrt{q})$. I. 90k:11046

— Classification of normal congruence subgroups of $GL(\sqrt{q})$. II. 90k:11047

Waterman, P. L. see MacLachlan, C.; et al., 90b:11039

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Bers, Lipman Finitely generated Kleinian groups. An introduction. 90i:20050

Derevin, D. A. (with Mednykh, A. D.) Geometric properties of discrete groups acting with fixed points in a Lobachevskii space. 90a:30131

Fine, Benjamin ★ Algebraic theory of the Bianchi groups. 90b:20002

Iwaniec, H. Selberg's lower bound of the first eigenvalue for congruence groups. 90f:11033

Kulkarni, Ravi S. Geometry of Neumann subgroups. 90j:20099

Langer, Ulrich² (with Rosenberger, Gerhard) Erzeugende endlicher projektiver linearer Gruppen. [Generators of finite projective linear groups] 90b:20070

Levin, Frank (with Rosenberger, Gerhard) Generators of finite projective linear groups. II. 90b:20058

Mason, A. W. Nonstandard, normal subgroups and nonnormal, standard subgroups of the modular group. 90f:20067

Mednykh, A. D. see Derevin, D. A., 90a:30131

Mostow, G. D. Selberg's work on the arithmeticity of lattices and its ramifications. 90b:22010

Mushtaq, Q. Reduced indefinite binary quadratic forms and orbits of the modular group. (Serbo-Croatian summary) 90d:11044

Rosenberger, Gerhard Minimal generating systems of a subgroup of $SL(2, \mathbb{C})$. 90g:20075

— see also Langer, Ulrich², 90b:20070 and Levin, Frank, 90b:20058

(Serre, Jean-Pierre) see Thompson, J. G., 90a:20105

Stothers, W. W. On formulae of Macbeath and Hussein. 90c:20059

Thompson, J. G. Hecke operators and noncongruence subgroups. 90a:20105

— Fricke, free groups and SL_2 . 90f:20074

Tukia, Pekka Homeomorphic conjugates of Fuchsian groups: an outline. 90b:22011

Zwiebach, Barton Closed string couplings with modular properties. 90c:81249

11F11 Modular forms, one variable

Berndt, Bruce C. (with Biagioli, Anthony J.; Purtilo, James M.) Ramanujan's "mixed" modular equations. 90k:11048

— (with Biagioli, Anthony J.; Purtilo, James M.) Ramanujan's modular equations of degrees 7 and 11. 90b:11040

— Introduction to Ramanujan's modular equations. 90d:11055

Biagioli, Anthony J. A proof of some identities of Ramanujan using modular forms. 90m:11060

— see also Berndt, Bruce C.; et al., 90b:11040 and 90b:11048

Feng, Xu Ning see Pei, Ding Yi, 90b:11043

Hickerson, Dean A proof of the mock theta conjectures. 90f:11028a

— On the seventh order mock theta functions. 90f:11028b

- Hijkata, Hiroaki (with Pizer, Arnold K.; Shemanske, T.) The basis problem for modular forms on $\Gamma_0(N)$. 90d:11056
- Hiratsuka, Toyokazu On traces of Hecke operators on the space of cusp forms of weight 1. 90j:11034
- Jordan, Bruce W. (with Livné, Ron) Conjecture "epsilon" for weight $k > 2$. 90d:11057
- Kohnen, Winfried A remark on the Shimura correspondence. 90b:11041
- Kubota, Tomio On a classical theta-function. II. 90a:11053
- Livné, Ron see Jordan, Bruce W., 90d:11057
- (Maeda, Yoshitaka) see Miyake, Toshitsune, 90m:11062
- Manickam, M. (with Ramakrishnan, B.; Vasudevan, T. C.) On Shintani correspondence. 90m:11061
- Miyake, Toshitsune ★ Modular forms. 90m:11062
- Mozzochi, C. J. On the nonvanishing of Poincaré series. 90d:11058
- Murty, V. Kumar Lacunarity of modular forms. 90b:11042
- Pei, Ding Yi (with Feng, Xu Ning) Some results of modular forms. 90b:11043
- Pizer, Arnold K. Ramanujan graphs and Hecke operators. 90m:11063
- see also Hijkata, Hiroaki; et al., 90d:11056
- Purtilo, James M. see Berndt, Bruce C.; et al., 90b:11040 and 90k:11048
- Ramakrishnan, B. see Manickam, M.; et al., 90m:11061
- (Ramanujan, Srinivasa) see Berndt, Bruce C., 90d:11055
- Scholl, A. J. Modular forms on noncongruence subgroups. 90k:11049
- Shemanske, T. see Hijkata, Hiroaki; et al., 90d:11056
- Stark, Harold M. On modular forms of weight one from real quadratic fields and theta functions. 90c:11030
- Ueda, Masaru The decomposition of the spaces of cusp forms of half-integral weight and trace formula of Hecke operators. 90d:11054
- Vasudevan, T. C. see Manickam, M.; et al., 90m:11061
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- Akiyama, Shigeki On the Fourier coefficients of automorphic forms of triangle groups. 90i:11047
- Alvarez, Enrique (with Osorio, M. A. R.) Twisted modular forms and Atkin-Lehner symmetries. 90i:81097
- Arenas, A. An arithmetic problem on the sums of three squares. 90c:11070
- Baker, Andrew James On the homotopy type of the spectrum representing elliptic cohomology. 90d:55008
- Balog, J. (with Tuite, Michael P.) The failure of Atkin-Lehner symmetry for lattice compactified strings. 90k:81181
- Berndt, Bruce C. (with Biagioli, Anthony J.; Purtilo, James M.) Ramanujan's modular equations of "large" prime degree. 90b:11038
- Biagioli, Anthony J. see Berndt, Bruce C.; et al., 90b:11038
- Bump, Daniel (with Friedberg, Solomon; Hoffstein, Jeffrey) A nonvanishing theorem for derivatives of automorphic L -functions with applications to elliptic curves. 90b:11063
- Cassou-Nogues, Ph. (with Taylor, Martin J.) Unités modulaires et monogénéité d'anneau d'entiers. [Modular units and monogeneity of rings of integers] 90j:11155
- Choi, Youngju Rational period functions for the modular group and real quadratic fields. 90i:11054
- Christians, Ulrich Über die analytische Fortsetzung gewisser Poincaréscher Reihen zu elliptischen Modulgruppen. [On the analytic continuation of certain Poincaré series attached to elliptic modular groups] 90d:11071
- Cipra, Barry A. On the Shimura lift, après Selberg. 90j:11058
- Cox, David A. ★ Primes of the form $x^2 + ny^2$. 90m:11016
- Felder, G. (with Silvotti, R.) Modular covariance of minimal model correlation functions. 90i:81116
- Ferrara, S. (with Lüst, D.; Shapere, Alfred; Theisen, S.) Modular invariance in supersymmetric field theories. 90k:83097
- Friedberg, Solomon see Bump, Daniel; et al., 90b:11063
- Hirzebruch, Friedrich Elliptic genera of level N for complex manifolds. 90m:57030
- Hisamatsu, Tatsuo A remark about the Taniyama-Weil conjecture for an elliptic curve defined by an equation $y^2 = x^3 + D^2x + D^3$. 90j:11044
- Hoffstein, Jeffrey see Bump, Daniel; et al., 90b:11063
- Izzykson, Claude Modular invariance and the A - D - E classification. (see 90m:81002)
- Köhler, Günter¹ Theta series on the theta group. 90m:11067
- Lomadze, G. A. Representation of numbers by sums of the quadratic forms $x_1^2 + x_2x_3 + x_3^2$. (Russian) 90m:11147
- Lüst, D. (with Theisen, S.) Superstring partition functions and the characters of exceptional groups. 90g:81256
- see also Ferrara, S.; et al., 90k:83097
- Masumoto, Makoto The kernel of the Poincaré series operator of weight -2 . 90d:30126
- Mathur, Samir D. (with Mukhi, Sunil; Sen, Ashoke) Reconstruction of conformal field theories from modular geometry on the torus. 90k:81225
- McMullen, Curt Amenability, Poincaré series and quasiconformal maps. 90c:30048
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- Stark, Harold M. On modular forms of weight one from real quadratic fields and theta functions. 90c:11030
- Weintraub, Steven H. see Lee, Ronnie, 90j:32038

11F55 Other groups and their modular and automorphic forms (several variables)

- Berndt, Rolf Some special features of the Jacobi group. 90k:11063
- Friedberg, Solomon Poincaré series, Kloosterman sums, trace formulas, and automorphic forms for $GL(n)$. 90k:11044
- Goldfeld, Dorian Analytic number theory on $GL(r, \mathbb{R})$. 90g:11061
- Gritsenko, V. A. Fourier-Jacobi functions in n variables. (Russian) 90a:11058
- Hoffstein, Jeffrey (with Murty, M. Ram) L -series of automorphic forms on $GL(3, \mathbb{R})$. 90m:11075
- Krieg, Aloys The Hecke-algebras related to the unimodular and modular group over the Hurwitz order of integral quaternions. 90b:11048
- Eisenstein-series on the four-dimensional hyperbolic space. 90a:11059
- Mandouvalos, Nikolaos Scattering operator, Eisenstein series, inner product formula and "Maass-Selberg" relations for Kleinian groups. 90c:11036
- Murase, Atsushi L -functions attached to Jacobi forms of degree n . I. The basic identity. 90k:11064
- Murty, M. Ram see Hoffstein, Jeffrey, 90m:11075
- Patterson, S. J. (with Piatetski-Shapiro, I. I.) The symmetric-square L -function attached to a cuspidal automorphic representation of GL_3 . 90d:11070
- Piatetski-Shapiro, I. I. see Patterson, S. J., 90d:11070
- Proskurin, N. V. Automorphic forms on the exceptional group $G_2(\mathbb{C})$. (Russian) 90i:11052

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- Bump, Daniel (with Hoffstein, Jeffrey) Some conjectured relationships between theta functions and Eisenstein series on the metaplectic group. 90m:11076
- Felt, Paul Explicit formulas for local factors in the Euler products for Eisenstein series. 90c:11055
- Harris, Michael Functorial properties of toroidal compactifications of locally symmetric varieties. 90c:11048
- Hatada, Kazuyuki Correspondences for Hecke rings and l -adic cohomology groups on smooth compactifications of Siegel modular varieties. 90j:11036
- Hijkata, Hiroaki (with Pizer, Arnold K.; Shemanske, T.) Orders in quaternion algebras. 90c:11128
- Hoffstein, Jeffrey see Bump, Daniel, 90m:11076
- Holzapfel, R.-P. An arithmetic uniformization for arithmetic points of the plane by singular moduli. 90j:11054
- Koizumi, Shoji Theta series and the Poincaré divisor. 90m:11068
- Krieg, Aloys Hecke algebras. 90m:16024
- Platetski-Shapiro, I. I. The existence of Maass cusp forms and Kloosterman sums. 90c:11056
- Pizer, Arnold K. see Hijkata, Hiroaki; et al., 90c:11128
- Sarnak, P. Statistical properties of eigenvalues of the Hecke operators. 90c:11056
- Shemanske, T. see Hijkata, Hiroaki; et al., 90c:11128
- Stade, Eric Poincaré series for $GL(3, \mathbb{R})$ -Whittaker functions. 90c:22022
- Vinogradov, A. I. SL_2 techniques and the density conjecture. (Russian) 90c:11124
- Wallace, D. I. Terms in the Selberg trace formula for $SL(3, \mathbb{Z})/SL(3, \mathbb{R})/SO(3, \mathbb{R})$ associated to Eisenstein series coming from a maximal parabolic subgroup. 90c:11081
- Yamazaki, Tadashi Jacobi forms and a Maass relation for Eisenstein series. II. 90c:11051

11F66 Dirichlet series and functional equations in connection with modular forms

- Bump, Daniel (with Hoffstein, Jeffrey) Some conjectured relationships between theta functions and Eisenstein series on the metaplectic group. 90m:11076
- Fomenko, O. M. Estimates for scalar squares of cusp forms, and arithmetic applications. (Russian) 90c:11037
- Gritsenko, V. A. Factorization of Hecke polynomials of classical groups. 90b:11049
- Hafner, James Lee Critical zeros of $GL(2)$ L -functions. 90c:11068
- Hoffstein, Jeffrey see Bump, Daniel, 90m:11076
- Kohnen, Winfried (with Skoruppa, Nils-Peter) A certain Dirichlet series attached to Siegel modular forms of degree two. 90c:11050
- Kubota, Tomio On a functional equation involving Kloosterman sums. 90a:11060
- Sato, Takakazu Jacobi forms and certain special values of Dirichlet series associated to modular forms. 90c:11065
- Shimura, Goro On the critical values of certain Dirichlet series and the periods of automorphic forms. 90c:11069
- Skoruppa, Nils-Peter see Kohnen, Winfried, 90c:11050
- Szydio, Bogdan Bemerkung zu einem Satz von Hecke über Dirichletsche Reihen mit Funktionalgleichung. [Comment on a theorem of Hecke on Dirichlet series with functional equation] 90c:11053

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- Andrianov, Anatoli Nikolaevich Dirichlet series that correspond to representations of zero by indefinite quadratic forms. (Russian) 90m:11052
- Bump, Daniel The Rankin-Selberg method: a survey. 90m:11079
- Gérardin, Paul (with Li, Wen-Ch'ing Winnie) Functional equations and periodic sequences. 90c:11064
- (with Li, Wen-Ch'ing Winnie) Twisted Dirichlet series and distributions. 90m:11178
- Iheda, Tamotsu On the functional equations of the triple L -functions. 90j:11064
- Kitaoka, Yoshiyuki Fourier coefficients of certain Eisenstein series. 90m:11071
- Kohnen, Winfried p -adic congruences for cycle integrals associated to elliptic curves with complex multiplication. 90c:11056
- Kuznetsov, N. V. The sums of the Kloosterman sums. 90c:11048
- Li, Jian-Shu (with Platetski-Shapiro, I. I.; Sarnak, P.) Poincaré series for $SO(n, 1)$. 90j:11040
- Li, Wen-Ch'ing Winnie see Gérardin, Paul, 90j:11084 and 90m:11178
- Patterson, S. J. A heuristic principle and applications to Gauss sums. 90c:11138
- Platetski-Shapiro, I. I. see Li, Jian-Shu; et al., 90j:11040
- Sarnak, P. see Li, Jian-Shu; et al., 90j:11040
- Stern, Jacob Evaluation of the symmetric square at the near center point. 90c:11056

11F67 Special values of automorphic L -series, periods of modular forms, cohomology, modular symbols

- Chole, YoungJu Rational period functions for the modular group and real quadratic fields. 90c:11054
- Colmez, Pierre Algèbre de valeurs spéciales de fonctions L . [Algebraicity of special values of L -functions] 90c:11030
- Fujiwara, Yasuaki On divisibilities of special values of real analytic Eisenstein series. 90c:11070
- Henniart, Guy Cyclotomie et valeurs de la fonction Γ (d'après G. Anderson). [Cyclotomy and values of the Γ -function (following G. Anderson)] 90c:11055
- Rohrich, David E. Nonvanishing of L -functions for $GL(2)$. 90c:11062
- Sasaki, Takeshi (with Yoshida, Masaaki) Linear differential equations in two variables of rank four. I. 90c:11071a
- (with Yoshida, Masaaki) Linear differential equations in two variables of rank four. II. The uniformizing equation of a Hilbert modular orbifold. 90c:11071b
- Stevens, Glenn The Eisenstein measure and real quadratic fields. 90m:11077
- Sturm, Jacob Evaluation of the symmetric square at the near center point. 90c:11056
- Vignéras, Marie-France Moyennes galoisiennes des valeurs de fonctions L . [Galois means of values of L -functions] 90c:11057

- Weseliemann, Uwe An elementary identity in the theory of Hecke L -functions. 90c:11031
- Yoshida, Masaaki see Sasaki, Takeshi, 90c:11071a and 90c:11071b

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- Bump, Daniel (with Friedberg, Solomon; Hoffstein, Jeffrey) A nonvanishing theorem for derivatives of automorphic L -functions with applications to elliptic curves. 90b:11063
- Colmez, Pierre Périodes de variétés abéliennes à multiplication complexe et dérivées de fonctions L d'Artin en $s = 0$. (English summary) [Periods of abelian varieties with complex multiplication and derivatives of Artin L -functions at $s = 0$] 90b:11106
- Drinfel'd, V. G. Proof of the Petersson conjecture for $GL(2)$ over a global field of characteristic p . 90c:11038
- On my paper: "Cohomology of compactified moduli varieties of F -sheaves of rank 2" [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI) 162 (1987), Avtorrofn. Funkts. i Teor. Chisel. III, 107–158; MR 89b:11050]. (Russian) 90c:11072
- Friedberg, Solomon see Bump, Daniel; et al., 90b:11063
- Garrett, Paul B. ★ Holomorphic Hilbert modular forms. 90c:11058
- Gekeler, Ernst-Ulrich Some new identities for Bernoulli-Carlitz numbers. 90j:11128
- Gérardin, Paul (with Li, Wen-Ch'ing Winnie) Identities on degree two gamma factors. (see 90m:11193)
- Henniart, Guy Preuve de la conjecture de Langlands locale numérique pour $GL(n)$. [Proof of the numerical local Langlands conjecture $GL(n)$] (see 90m:11193)
- Hoffstein, Jeffrey see Bump, Daniel; et al., 90b:11063
- Jacquet, Hervé On the nonvanishing of some L -functions. 90c:11079
- Kohnen, Winfried A remark on the Shimura correspondence. 90b:11041
- Li, Wen-Ch'ing Winnie see Gérardin, Paul, (90m:11193)
- Platetski-Shapiro, I. I. (with Rallis, Stephen) A new way to get Euler products. 90c:11032
- Rallis, Stephen see Platetski-Shapiro, I. I., 90c:11032
- Ramakrishnan, Dinakar Regulators, algebraic cycles, and values of L -functions. 90c:11094
- Rohrich, David E. L -functions and division towers. 90a:11066
- Szech, Robert Cusps on Hilbert modular varieties and values of L -functions. 90m:11070
- de Shalit, Ehud Eichler cohomology and periods of modular forms on p -adic Schottky groups. 90j:11042
- Shiratski, Katsumi On generalized periods of cusp forms. 90b:11129
- Taylor, Martin J. Root numbers and the local Langlands conjecture. (see 90m:11193)
- Terasama, Tomohide Constructible sheaves associated to Whittaker functions. 90b:11121

11F70 Representation-theoretic methods; automorphic representations over local and global fields

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- Bump, Daniel The Rankin-Selberg method: a survey. 90m:11079
- Cogdell, J. W. (with Platetski-Shapiro, I. I.) Base change for the Saito-Kurokawa representations of $PGSp(4)$. 90b:11051
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- Flicker, Yuval Z. Packets and liftings for $U(3)$. 90b:11052
- (with Kazhdan, David A.) Geometric Ramanujan conjecture and Drinfel'd reciprocity law. 90c:11063
- Base change trace identity for $U(3)$. 90m:11080
- Garrett, Paul B. Integral representations of Eisenstein series and L -functions. 90c:11073
- Gelbart, S. (with Soudry, David) On Whittaker models and the vanishing of Fourier coefficients of cusp forms. 90c:11074
- Recent results on automorphic L -functions. 90c:11066
- Gross, Benedict H. Local orders, root numbers, and modular curves. 90b:11053
- Iheda, Tamotsu On the functional equations of the triple L -functions. 90j:11064
- Jacquet, Hervé (with Zagier, Don) Eisenstein series and the Selberg trace formula. II. 90c:11054
- Kazhdan, David A. see Flicker, Yuval Z., 90c:11063
- Kottwitz, Robert E. Tamagawa numbers. 90c:11075
- Langlands, R. P. Representation theory and arithmetic. 90c:11076
- Eisenstein series, the trace formula, and the modern theory of automorphic forms. 90c:11077
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- Ramakrishnan, Dinakar see Blasius, Don, 90m:11078
- Rühl, W. Automorphic functions, Poincaré series, and conformal fields on Riemann surfaces. 90j:11039
- Schmidt, C.-G. p -adic measures attached to automorphic representations of $GL(3)$. 90c:11032
- Shahidi, Freydoon Third symmetric power L -functions for $GL(2)$. 90m:11081
- Soudry, David see Gelbart, S., 90c:11074
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- Arthur, James (with Clozel, Laurent) ★ Simple algebras, base change, and the advanced theory of the trace formula. 90m:22041
- Intertwining operators and residues. II. Invariant distributions. 90j:22019
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- Bernst, Rolf Some special features of the Jacobi group. 90c:11063
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- Friedberg, Solomon see Bump, Daniel, 90c:22009

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— see also Gérardin, Paul, 90m:11193

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11F72 Spectral theory; Selberg trace formula

Akiyama, Shigeki Selberg trace formula for odd weight. II. 90b:11055

— Selberg trace formula for odd weight. I. 90b:11039

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— (with Clozel, Laurent) ★ Simple algebras, base change, and the advanced theory of the trace formula. 90m:22041

— The trace formula and Hecke operators. 90e:11072

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11F75 Cohomology of arithmetic groups

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11F80 Galois properties

Boston, N. Deformations of Galois representations associated to the cusp form Δ . 90m:11085
 Ihara, Yasutaka The Galois representation arising from $P^1 - \{0, 1, \infty\}$ and Tate twists of even degree. 90k:11067
 Vignéras, Marie-France Correspondance modulaire galois-quaternions pour un corps p -adique. [The Galois-quaternion modular correspondence for a p -adic field] 90j:11041

Items with secondary classifications in 11F80

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 Flachman, V. M. On the structure of the Tate module. 90k:11073
 Ichimura, Humio (with Kaneko, Masanobu) On the universal power series for Jacobi sums and the Vandiver conjecture. 90m:11162
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11F85 p -adic theory, local fields [see also 14G20, 22E50]

de Shalit, Ehud Eichler cohomology and periods of modular forms on p -adic Schottky groups. 90j:11042

Items with secondary classifications in 11F85

Baker, Andrew James Elliptic cohomology, p -adic modular forms and Atkin's operator U_p . 90f:55007
 Diamond, Fred On congruence modules associated to A -adic forms. 90h:11041
 Gritsenko, V. A. Factorization of Hecke polynomials of classical groups. 90h:11049
 Henniart, Guy (with Mestre, J.-F.) Moyenne arithmétique-géométrique p -adique. (English summary) [The p -adic arithmetic-geometric mean] 90j:11075
 Kohnen, Winfried p -adic congruences for cycle integrals associated to elliptic curves with complex multiplication. 90a:11056
 Mestre, J.-F. see Henniart, Guy, 90j:11075
 Schmidt, C.-G. p -adic measures attached to automorphic representations of $GL(3)$. 90f:11032
 de Shalit, Ehud A formula for the cup product on Mumford curves. 90k:14017
 Vignéras, Marie-France Correspondance modulaire galois-quaternions pour un corps p -adique. [The Galois-quaternion modular correspondence for a p -adic field] 90j:11041

11F99 None of the above, but in this section

Beukers, F. (with Heckman, Gert) Monodromy for the hypergeometric function ${}_2F_1$. 90f:11034

Heckman, Gert see Beukers, F., 90f:11034

Items with secondary classifications in 11F99

Date, E. (with Jimbo, Michio; Miwa, Tetsuji; Okado, Masato) Solvable lattice models. 90h:82062
 Flach, Matthias Periods and special values of the hypergeometric series. 90h:11065
 Harvey, Jeffrey A. (with Naculich, Stephen G.) Conformal field theory and genus-zero function fields. 90h:81128
 Jimbo, Michio see Date, E., et al., 90h:82062
 Joyce, G. S. Exact results for the activity and isothermal compressibility of the hard-hexagon model. 90a:82070
 Krieg, Aloys Hecke algebras. 90m:16024
 Lam, C. S. GSO projections of modular-invariant aperiodic strings. 90f:81108
 Matsumoto, Shuji (with Uehara, S.; Yasui, Yukinori) Hadamard model on the super Riemann surface. 90a:58183
 Miwa, Tetsuji see Date, E., et al., 90h:82062
 Naculich, Stephen G. see Harvey, Jeffrey A., 90h:81128
 Okado, Masato see Date, E., et al., 90h:82062
 Ordóñez, Carlos R. (with Rubin, Mark A.; Zwanziger, Daniel) Modular invariance and stochastic quantization. 90j:81077
 Rubin, Mark A. see Ordóñez, Carlos R., et al., 90j:81077
 Röhl, W. Irreducible automorphic functions and conformal field theory. (see 90m:81003)
 Uehara, S. see Matsumoto, Shuji, et al., 90a:58183
 Yasui, Yukinori see Matsumoto, Shuji, et al., 90a:58183
 Zwanziger, Daniel see Ordóñez, Carlos R., et al., 90j:81077

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

11G05 Elliptic curves over global fields

Beukers, F. (with Top, Jaap) On oranges and integral points on certain plane cubic curves. 90h:11046
 Dorman, David R. Global orders in definite quaternion algebras as endomorphism rings for reduced CM elliptic curves. 90j:11043
 Edixhoven, Bas (with de Groot, Arnold; Top, Jaap) Elliptic curves over the rationals with bad reduction at only one prime. 90g:11068
 Elkies, Noam D. Supersingular primes for elliptic curves over real number fields. 90i:11058
 Frey, Gerhard Links between elliptic curves and solutions of $A - B = C$. 90i:11059
 — Links between solutions of $A - B = C$ and elliptic curves. 90g:11069
 Gekeler, Ernst-Ulrich On the de Rham isomorphism for Drinfel'd modules. 90g:11070
 Grayson, Daniel R. The arithmetic mean. 90g:11071
 de Groot, Arnold see Edixhoven, Bas, et al., 90g:11068
 Harada, Koichiro (with Lang, Mong-Lung) Some elliptic curves arising from the Leech lattice. 90g:11072
 Hindry, M. Minoration de hauteurs et analyse diophantienne sur les courbes elliptiques. [Bounding heights from below and Diophantine analysis on elliptic curves] (see 90j:11064)
 Hisamatsu, Tatsuo A remark about the Taniyama-Weil conjecture for an elliptic curve defined by an equation $y^2 = x^3 + D^2x + D^3$. 90j:11044
 Kamienny, S. p -torsion in elliptic curves over subfields of $\mathbb{Q}(\mu_p)$. 90a:11061
 Koshikawa, K. B. An estimate for orders of Selmer groups of elliptic curves with supersingular reduction in a cyclic Γ -extension. (Russian) (see 90h:20005)
 Kolyagin, V. A. The Mordell-Weil and Shafarevich-Tate groups for Weil elliptic curves. 90f:11035
 Kramarz, G. see Zagier, Don, 90d:11072
 Kraus, Alain Quelques remarques à propos des invariants c_4 , c_6 et Δ d'une courbe elliptique. [Some remarks about the invariants c_4 , c_6 and Δ of an elliptic curve] 90j:11045
 Lang, Mong-Lung see Harada, Koichiro, 90g:11072
 Masser, D. W. (with Wüstholz, G.) Some effective estimates for elliptic curves. 90j:11046
 — Counting points of small height on elliptic curves. (French summary) 90k:11068
 Müller, Hans Helmut (with Ströher, Harald; Zimmer, Horst G.) Complete determination of all torsion groups of elliptic curves with integral absolute invariant over quadratic and pure cubic fields. 90m:11086
 — (with Ströher, Harald; Zimmer, Horst G.) Torsion groups of elliptic curves with integral j -invariant over quadratic fields. 90e:11085
 Murty, M. Ram On the supersingular reduction of elliptic curves. 90c:11040
 — Recent developments in elliptic curves. 90f:11036
 Parish, James L. Rational torsion in complex-multiplication elliptic curves. 90k:11069
 Rakhimov, I. S. The Selmer group of an elliptic curve. (Russian) (see 90h:20005)
 Rubin, Karl Descents on elliptic curves with complex multiplication. 90g:11073
 Shioda, Tetsuji The Galois representation of type E_4 arising from certain Mordell-Weil groups. 90f:11037
 — Mordell-Weil lattices and Galois representation. I. 90m:11087
 — Mordell-Weil lattices and Galois representation. II, III. 90m:11088
 Silverman, Joseph H. Recent (and not so recent) developments in the arithmetic theory of elliptic curves. 90j:11074
 Stevens, Glenn Stickelberger elements and modular parametrizations of elliptic curves. 90m:11089
 Ströher, Harald see Müller, Hans Helmut, et al., 90e:11085 and 90m:11086
 Top, Jaap see Edixhoven, Bas, et al., 90g:11068 and Beukers, F., 90h:11046
 Wajart, Clara Solutions of specific Diophantine equations and their relationship to complex multiplication. 90i:11060
 Wüstholz, G. see Masser, D. W., 90j:11046
 Zagier, Don (with Kramarz, G.) Numerical investigations related to the L -series of certain elliptic curves. 90d:11072
 Zimmer, Horst G. see Müller, Hans Helmut, et al., 90e:11085 and 90m:11086

Items with secondary classifications in 11G05

Boston, N. Deformations of Galois representations associated to the cusp form Δ . 90m:11085
 Bremner, Andrew Letter to the editor: "Integer points of $y^2 = x^3 - 4x + 1$ " [J. Number Theory 30 (1988), no. 1, 86-93; MR 90i:11041a] by S. P. Mohanty. 90e:11041b
 — (with Guy, Richard K.) The delta-lambda configurations in tiling the square. 90g:11031
 Calderbank, A. R. (with Morton, Patrick) Quasi-symmetric 3-designs and elliptic curves. 90m:05020
 Cipra, Barry A. Getting a grip on elliptic curves. 90i:11092
 Flockinger, Vincent Génération de bases d'entiers à partir de la courbe $y^2 = 4x^3 + 1$. [Generation of integral bases starting from the curve $y^2 = 4x^3 + 1$] 90g:11156
 Frey, Gerhard Elliptic curves and solutions of $A - B = C$. 90g:11036
 Greenberg, Ralph Nonvanishing of certain values of L -functions. 90j:11124
 Guy, Richard K. see Bremner, Andrew, 90g:11031
 Hellegouarch, Yves Positive definite binary quadratic forms over $k[X]$. 90k:11037
 Hulek, K. Elliptische Kurven, abelsche Flächen und das Ikosaeder. [Elliptic curves, abelian surfaces and the icosahedron] 90h:14023
 Kamienny, S. Torsion points on elliptic curves over fields of low degree. 90j:11052
 Keating, Kevin Galois characters associated to formal A -modules. 90h:11128
 Laurent, Michel Une nouvelle démonstration du théorème d'isogénie, d'après D. V. et G. V. Chudnovsky. [A new proof of the isogeny theorem, following D. V. and G. V. Chudnovsky] 90k:11094
 Livné, Ron On the conductors of mod l Galois representations coming from modular forms. 90f:11029
 Masser, D. W. Specializations of finitely generated subgroups of abelian varieties. 90d:11073
 Mestre, J.-F. (with Oesterlé, J.) Courbes de Weil semi-stables de discriminant une puissance m -ième. [Semistable Weil curves with discriminant an m th power] 90g:11078
 Mohanty, Shreedhara Prasada Integer points of $y^2 = x^3 - 4x + 1$. 90e:11041a
 — see also Bremner, Andrew, 90e:11041b
 Morton, Patrick see Calderbank, A. R., 90m:05020

- Oesterlé, J. Nouvelles approches du "théorème" de Fermat. [New approaches to Fermat's "theorem"] 90g:11038
 — see also Mestre, J.-F., 90g:11078
 Ota, Kaei On P -integrality of a formal group obtained from a hypergeometric function. 90f:14030
 Parshin, A. N. The Bogomolov-Miyaoka-Yau inequality for the arithmetical surfaces and its applications. 90m:14017
 — Application of ramified coverings in the theory of Diophantine equations. 90j:11055
 Rohrlich, David E. L -functions and division towers. 90a:11066
 Schell, A. J. The l -adic representations attached to a certain noncongruence subgroup. 90e:11064
 Shioda, Goro Frey's elliptic curve as an elliptic surface over the Fermat curve. 90t:14024
 Taylor, Martin J. Structure galoisienne des anneaux d'entiers et groupes de Mordell-Weil. [Galois structure of rings of integers, and Mordell-Weil groups] 90d:11125
 Tabbas, Robert The algebraic independence of three numbers: Schneider's method. 90j:11069

11G07 Elliptic curves over local fields

- Andrúchuk, V. I. Cohomology of the group of ideal classes and generalized Jacobians. (Ukrainian. Russian summary) 90j:11047
 — Some problems connected with Tate-Shafarevich pairing in elliptic curves over pseudo-local fields. (Ukrainian. Russian summary) 90j:11048
 Henniart, Guy (with Mestre, J.-F.) Moyenne arithmético-géométrique p -adique. (English summary) [The p -adic arithmetic-geometric mean] 90g:11075
 Mestre, J.-F. see Henniart, Guy, 90g:11075

Items with secondary classifications in 11G07

- Gekeler, Ernst-Ulrich Méthodes analytiques rigides dans la théorie arithmétique des corps de fonctions. [Rigid analytic methods in the arithmetic theory of function fields] 90c:11141
 Jones, John William Iwasawa L -functions for multiplicative abelian varieties. 90m:11094
 Keating, Kevin Lifting endomorphisms of formal A -modules. 90e:14048
 Klapper, A. Selmer group estimates arising from the existence of canonical subgroups. 90e:14046

11G10 Abelian varieties of dimension > 1

- (Brown, Martin Lawrence) see Serre, Jean-Pierre, 90e:11086
 Coleman, Robert F. A remark on kernels of reduction. 90a:11062
 Grant, David Coates-Wiles towers in dimension two. 90f:11038
 Masser, D. W. Specializations of finitely generated subgroups of abelian varieties. 90d:11073
 McCallum, William G. On the Shafarevich-Tate group of the Jacobian of a quotient of the Fermat curve. 90b:11059
 Mestre, J.-F. Courbes hyperelliptiques à multiplications réelles. [Hyperelliptic curves with real multiplication] 90h:11047
 Ooe, Takeshi (with Top, Jaap) On the Mordell-Weil rank of an abelian variety over a number field. 90g:11076
 Oort, Frans Endomorphism algebras of abelian varieties. 90j:11049
 Schneider, Peter The μ -invariant of isogenies. 90g:11077
 Serre, Jean-Pierre ★ Lectures on the Mordell-Weil theorem. 90e:11086
 Top, Jaap see Ooe, Takeshi, 90g:11076
 (Waldschmidt, M.) see Serre, Jean-Pierre, 90e:11086
 Zarkhin, Yu. G. Torsion of abelian varieties over $GL(2)$ -extensions of number fields. 90e:11061

Items with secondary classifications in 11G10

- André, Yves Erratum to the article: "Complex multiplication in pencils of abelian varieties" [in *Séminaire de Théorie des Nombres, Paris 1984-85*, 1-22, Birkhäuser Boston, Boston, MA, 1986; MR 88j:14055]. (French) 90h:14061
 — ★ G -functions and geometry. 90k:11087
 Bertin, José Sur une formule de Shioda et Mitani. (English summary) [On a formula of Shioda and Mitani] 90k:14046
 Bertrand, D. Galois representations and transcendental numbers. 90a:11077
 Chai, Ching-Li Arithmetic compactification of the Siegel moduli space. 90k:14042
 Desert, Marleen Zeta functions of arithmetic orders. 90a:11139
 Ditters, E. J. On the classification of commutative formal group laws over p -Hilbert domains and a finiteness theorem for higher Hasse-Witt matrices. 90h:14062
 Green, William Heights in families of abelian varieties. 90k:14044
 Hatada, Kazuyuki Correspondences for Hecke rings and l -adic cohomology groups on smooth compactifications of Siegel modular varieties. 90j:11036
 Klapper, A. Selmer group estimates arising from the existence of canonical subgroups. 90e:14046
 Mai, Liem Lower bounds for the ranks of CM types. 90g:11148
 Philippon, P. (with Waldschmidt, M.) Formes linéaires de logarithmes simultanées sur les groupes algébriques commutatifs. [Simultaneous linear forms of logarithms on commutative algebraic groups] 90e:11113
 de Shalit, Ehud Eichler cohomology and periods of modular forms on p -adic Schottky groups. 90j:11042
 Suwa, Noriyuki (with Yui, Noriko) Arithmetic of certain algebraic surfaces over finite fields. 90j:11053
 Waldschmidt, M. see Philippon, P., 90e:11113
 Yui, Noriko see Suwa, Noriyuki, 90j:11053

11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

- Anderson, Greg W. On a question arising from complex multiplication theory. 90e:11087

- Fleckinger, Vincent Modèle de Deuring et monogénéité des anneaux d'entiers des corps de rayons d'un corps quadratique imaginaire dans le cas 3 ramifié. [Deuring model and monogeneity of the rings of integers of the ray class field of an imaginary quadratic field when 3 is ramified] 90b:11060
 Hazama, Fumio Demjanenko matrix, class number, and Hodge group. 90m:11090
 Teitelbaum, Jeremy On Drinfel'd's universal formal group over the p -adic upper half plane. 90j:11050
 Wingberg, Kay A Riemann-Hurwitz formula for the Selmer group of an elliptic curve with complex multiplication. 90b:11061

Items with secondary classifications in 11G15

- Colmez, Pierre Périodes de variétés abéliennes à multiplication complexe et dérivées de fonctions L d'Artin en $s = 0$. (English summary) [Periods of abelian varieties with complex multiplication and derivatives of Artin L -functions at $s = 0$] 90h:11106
 — Algebricité de valeurs spéciales de fonctions L . [Algebraicity of special values of L -functions] 90f:11036
 Flach, Matthias Periods and special values of the hypergeometric series. 90h:11065
 Fujiwara, Yasushi On divisibilities of special values of real analytic Eisenstein series. 90e:11070
 Gherardelli, Francesco Quasi-abelian varieties with complex multiplication. (Italian. English summary) 90k:32097
 Klingenberg, Christoph Survey of the proof of the Tate conjectures for Hilbert-Blumenthal surfaces. 90h:11049
 Kohnen, Winfried p -adic congruences for cycle integrals associated to elliptic curves with complex multiplication. 90a:11056
 Mai, Liem Lower bounds for the ranks of CM types. 90g:11148
 McCallum, William G. On the Shafarevich-Tate group of the Jacobian of a quotient of the Fermat curve. 90b:11059
 Mestre, J.-F. Courbes hyperelliptiques à multiplications réelles. [Hyperelliptic curves with real multiplication] 90h:11047
 Murty, M. Ram Recent developments in elliptic curves. 90f:11036
 Parish, James L. Rational torsion in complex-multiplication elliptic curves. 90k:11069
 Rubin, Karl Descents on elliptic curves with complex multiplication. 90g:11073
 Schertz, Reinhard Konstruktion von Potenzganzeitsbasen in Strahlklasskörpern über imaginär-quadratischen Zahlkörpern. [Construction of power integral bases in ray class fields over imaginary quadratic number fields] 90g:11150
 Shimura, Goro Yutaka Taniyama and his time. Very personal recollections. 90b:01090
 Stevens, Glenn The Eisenstein measure and real quadratic fields. 90m:11077
 (Taniyama, Yutaka) see Shimura, Goro, 90b:01090
 Taylor, Martin J. Structure galoisienne des anneaux d'entiers et groupes de Mordell-Weil. [Galois structure of rings of integers, and Mordell-Weil groups] 90d:11125
 Wajngurt, Clara Solutions of specific Diophantine equations and their relationship to complex multiplication. 90i:11060
 Weselmann, Uwe An elementary identity in the theory of Hecke L -functions. 90f:11031

11G16 Elliptic and modular units

- Lecacheux, Odile Unités d'une famille de corps cycliques réelles de degré 6 liés à la courbe modulaire $X_1(13)$. (English summary) [Units of a family of real cyclic fields of degree 6 associated with the modular curve $X_1(13)$] 90i:11062
 Murty, V. Kumar (with Ramakrishnan, Dinakar) The Manin-Drinfel'd theorem and Ramanujan sums. 90m:11091
 Ramakrishnan, Dinakar see Murty, V. Kumar, 90m:11091
 Scholl, A. J. On modular units. 90j:11051

Items with secondary classifications in 11G16

- Baker, Andrew James Elliptic cohomology, p -adic modular forms and Atkin's operator U_p . 90i:55007
 Cassou-Noguès, Ph. (with Taylor, Martin J.) Unités modulaires et monogénéité d'anneaux d'entiers. [Modular units and monogeneity of rings of integers] 90g:11155
 Kozuka, Kazuhito On two variable p -adic L -functions and a p -adic class number formula. 90j:11158
 Nakamura, Ken Elliptic units and the class numbers of non-Galois fields. 90g:11154
 Taylor, Martin J. see Cassou-Noguès, Ph., 90g:11155
 Yager, Rodney I. Special values of L -functions and height two formal groups. 90f:11096

11G18 Arithmetic of modular and Shimura varieties

- Gillard, Roland Étude d'une famille modulaire de variétés abéliennes. [Study of a modular family of abelian varieties] 90k:11070
 Harris, Michael Functorial properties of toroidal compactifications of locally symmetric varieties. 90h:11048
 Kamienny, S. Torsion points on elliptic curves over fields of low degree. 90j:11052
 Klingenberg, Christoph Survey of the proof of the Tate conjectures for Hilbert-Blumenthal surfaces. 90h:11049
 Kuga, Michio On a conjectural equation of certain kinds of surfaces. 90e:11088
 Mestre, J.-F. (with Oesterlé, J.) Courbes de Weil semi-stables de discriminant une puissance m -ième. [Semistable Weil curves with discriminant an m th power] 90g:11078
 Oesterlé, J. see Mestre, J.-F., 90g:11078
 Petri, Monica Arithmetic classification of Kuga fiber varieties of quaternion type. 90k:11071
 Ulmer, D. L. On universal elliptic curves over Igusa curves. 90m:11092

Items with secondary classifications in 11G18

- Baily, Walter L., Jr. On the proof of the reciprocity law for arithmetic Siegel modular functions. 90e:11035
 Bertin, José Sur une formule de Shioda et Mitani. (English summary) [On a formula of Shioda and Mitani] 90k:14046
 Blasius, Don (with Rogawski, J. D.) Galois representations for Hilbert modular forms. 90b:11046

- Buism, Alexandre Corps de modules et cohomologie non abélienne. (English summary) [Fields of moduli and nonabelian cohomology] 90b:14010
 (Chazal, Laurent) *see* Automorphic forms, Shimura varieties, and L -functions, 90j:11002 and 90j:11003
 Dorman, David R. Singular moduli, modular polynomials, and the index of the closure of $Z[\zeta(r)]$ in $Q(\zeta(r))$. 90k:11149
 Horie, Kuniaki (with Onishi, Yoshihiro) The existence of certain infinite families of imaginary quadratic fields. 90e:11157
 Jordan, Bruce W. (with Livné, Ron) Conjecture "epsilon" for weight $k > 2$. 90d:11057
 Kudla, Stephen S. (with Millson, John J.) Tubes, cohomology with growth conditions and an application to the theta correspondence. 90k:11054
 Lai, K. F. On the relative trace formula. 90b:11056
 Lee, Ronnie (with Weintraub, Steven H.) The Siegel modular variety of degree two and level four: a report. 90k:11061
 Livné, Ron *see* Jordan, Bruce W., 90d:11057
 Millson, John J. *see* Kudla, Stephen S., 90k:11054
 (Milne, James S.) *see* Automorphic forms, Shimura varieties, and L -functions, 90j:11002 and 90j:11003
 Onishi, Yoshihiro *see* Horie, Kuniaki, 90e:11157
 Rogawski, J. D. *see* Blasius, Don, 90k:11046
 Schoen, Chad Cyclic covers of P^2 branched along $v + 2$ hyperplanes and the generalized Hodge conjecture for certain abelian varieties. 90m:14009
 Taylor, Richard On Galois representations associated to Hilbert modular forms. 90m:11176
 Weintraub, Steven H. *see* Lee, Ronnie, 90k:11061

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- Ann Arbor, MI ★ Automorphic forms, Shimura varieties, and L -functions. Vol. I. 90j:11002
 — ★ Automorphic forms, Shimura varieties, and L -functions. Vol. II. 90j:11003
 Automorphic forms, Shimura varieties, and L -functions ★ Automorphic forms, Shimura varieties, and L -functions. Vol. I. 90j:11002
 — ★ Automorphic forms, Shimura varieties, and L -functions. Vol. II. 90j:11003
 Conference:
 Automorphic Forms, Shimura Varieties, and L -Functions ★ Automorphic forms, Shimura varieties, and L -functions. Vol. I. 90j:11002
 — ★ Automorphic forms, Shimura varieties, and L -functions. Vol. II. 90j:11003

11G20 Curves over finite and local fields

- Coleman, Robert F. Computing stable reductions. 90b:11050
 Drinfel'd, V. G. On my paper: "Cohomology of compactified moduli varieties of F -sheaves of rank 2" [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI) 162 (1987), Avtororfn. Funkts. i Teor. Chisl. III, 107–158; MR 89b:11050]. (Russian) 90k:11072
 Fishman, V. M. On the structure of the Tate module. 90k:11073
 Freije, Richard M. A p -adic analogue of the Gauss-Bonnet theorem for certain Mumford curves. 90e:11009
 Matignon, Michel Genre et genre résiduel des corps de fonctions valués. [Genus and residual genus of valuated function fields] 90a:11063
 Saito, Takeshi The discriminants of curves of genus 2. 90c:11041
 Stöhr, Karl-Otto (with Viana, Paulo) A study of Hasse-Witt matrices by local methods. 90d:11074
 Vainsencher, I. On Stöhr-Voloch's proof of Weil's theorem. 90b:11051
 Viana, Paulo *see* Stöhr, Karl-Otto, 90d:11074

Items with secondary classifications in 11G20

- Ando, Kiyoshi *see* Mizuno, Hirobumi; et al., 90a:94043
 Chekhov, L. O. (with Mironov, A. D.; Zabrodin, A. V.) Multiloop calculations in p -adic string theory and Bruhat-Tits trees. 90k:14016
 — (with Mironov, A. D.; Zabrodin, A. V.) Multiloop calculus in p -adic string theory and Bruhat-Tits trees. 90j:81178
 Chudnovsky, David V. (with Chudnovsky, Gregory V.) Algebraic complexities and algebraic curves over finite fields. 90g:11167
 Chudnovsky, Gregory V. *see* Chudnovsky, David V., 90g:11167
 Ditters, E. J. (with Hoving, Simon J.) On the connected part of the covariant Tate p -divisible group and the ζ -function of the family of hyperelliptic curves $y^2 = 1 + \mu x^N$ modulo various primes. 90e:14047
 Drinfel'd, V. G. Proof of the Petersson conjecture for $GL(2)$ over a global field of characteristic p . 90c:11038
 García, Arnaldo (with Voloch, J. F.) Fermat curves over finite fields. 90a:14027
 Gekeler, Ernst-Ulrich On the de Rham isomorphism for Drinfel'd modules. 90j:11070
 Hoving, Simon J. *see* Ditters, E. J., 90e:14047
 Ichijo, Takashi *see* Mizuno, Hirobumi; et al., 90a:94043
 Ihara, Yasutaka The Galois representation arising from $P^1 - \{0, 1, \infty\}$ and Tate twists of even degree. 90k:11067
 Ikeda, Kohel *see* Mizuno, Hirobumi; et al., 90a:94043
 Katsman, G. L. (with Tsfasman, M. A.) Spectra of algebro-geometric codes. (Russian) 90c:11149
 Koblitz, Neal Hyperelliptic cryptosystems. 90k:11165
 Mironov, A. D. *see* Chekhov, L. O.; et al., 90j:81178 and 90k:14016
 Mizuno, Hirobumi (with Ando, Kiyoshi; Ikeda, Kohel; Ichijo, Takashi) Code length and the zeta function. (Japanese. English summary) 90a:94043
 Nguyen Kkhak V'et Minimal models of algebraic curves. (Russian) 90b:14032
 Parimala, R. Witt groups of affine three-folds. 90a:14006
 Perret, Marc Families of codes exceeding the Varshamov-Gilbert bound. (French summary) 90j:14026
 Scharlau, Winfried Selbstduale Goppa-Codes. [Self-dual Goppa codes] 90i:11146
 de Shalit, Ehud A formula for the cup product on Mumford curves. 90k:14017
 Shekhtolahi, Mohammad Amin Codes on Hermitian curves. 90b:11137
 Suwa, Noriyuki (with Yui, Noriko) Jacobi sums, Fermat motives and the Artin-Tate formula. 90b:11052

- Tsfasman, M. A. *see* Katsman, G. L., 90a:11149
 Voloch, J. F. On the number of values taken by a polynomial over a finite field. 90j:11138
 — *see also* García, Arnaldo, 90a:14027
 Wolfmann, J. The number of points on certain algebraic curves over finite fields. 90k:11030
 Yui, Noriko *see* Suwa, Noriyuki, 90b:11052
 Zabrodin, A. V. *see* Chekhov, L. O.; et al., 90j:81178 and 90k:14016

11G25 Varieties over finite and local fields

- Étessé, Jean-Yves Rationalité et valeurs de fonctions L en cohomologie cristalline. (English summary) [Rationality and values of L -functions in crystalline cohomology] 90e:11042
 Fujiwara, Masahiko Counting points in a small box on varieties. 90d:11075
 Nathanson, Melvyn B. Long arithmetic progressions and powers of 2. 90k:11074
 van der Put, M. Uniformisation p -adique. [p -adic uniformization] 90e:11090
 Sen, Shankar The analytic variation of p -adic Hodge structure. 90b:11062
 Suwa, Noriyuki (with Yui, Noriko) Arithmetic of certain algebraic surfaces over finite fields. 90j:11053
 — (with Yui, Noriko) Jacobi sums, Fermat motives and the Artin-Tate formula. 90b:11052
 Yui, Noriko *see* Suwa, Noriyuki, 90b:11052 and 90j:11053

Items with secondary classifications in 11G25

- Hyodo, Osamu On variation of Hodge-Tate structures. 90i:14019
 Ichimura, Humio (with Kaneko, Masanobu) On the universal power series for Jacobi sums and the Vandiver conjecture. 90m:11162
 Kaneko, Masanobu *see* Ichimura, Humio, 90m:11162
 Kato, Kazuya A generalization of class field theory. (Japanese) 90g:11080
 Katz, Nicholas M. (with Laumon, Gérard) Erratum: "The Fourier transform and upper bounds for exponential sums" [Inst. Hautes Études Sci. Publ. Math. No. 62 (1985), 361–418; MR 87e:14017]. (French) 90i:14022
 Laumon, Gérard *see* Katz, Nicholas M., 90i:14022
 Murty, M. Ram On the supersingular reduction of elliptic curves. 90c:11040
 Oda, Takayuki Abelian l -adic representations associated with Selberg integrals. 90i:14013

11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields

- Beckmann, Sybilla Ramified primes in the field of moduli of branched coverings of curves. 90i:11063
 Coleman, Robert F. Torsion points on abelian étale coverings of $P^1 - \{0, 1, \infty\}$. 90a:11064
 Holzapfel, R.-P. An arithmetic uniformization for arithmetic points of the plane by singular moduli. 90j:11054
 Manin, Yu. I. Letter to the editors: "Rational points on algebraic curves over function fields" [Izv. Akad. Nauk SSSR Ser. Mat. 27 (1963), 1397–1442; MR 28 #1199]. 90i:11039
 Parshin, A. N. Application of ramified coverings in the theory of Diophantine equations. 90j:11055
 Top, Jaap A remark on the rank of Jacobians of hyperelliptic curves over \mathbb{Q} over certain elementary abelian 2-extensions. 90j:11079
 Volja, Paul Dyson's lemma for products of two curves of arbitrary genus. 90k:11075
 — Mordell's conjecture over function fields. 90k:11076
 Ya, Jing Transcendence and Drinfel'd modules: several variables. 90j:11056

Items with secondary classifications in 11G30

- Asada, Mamoru Indistinguishability of conjugacy classes of the pro- l mapping class group. 90b:14015
 (Brown, Martin Lawrence) *see* Serre, Jean-Pierre, 90e:11086
 Coleman, Robert F. Computing stable reductions. 90b:11050
 Colliot-Thélène, Jean-Louis (with Ojanguren, Manuel) Variétés unirationnelles non rationnelles: au-delà de l'exemple d'Artin et Mumford. [Nonrational unirational varieties: beyond the example of Artin and Mumford] 90m:14012
 Mestre, J.-F. Courbes hyperelliptiques à multiplications réelles. [Hyperelliptic curves with real multiplication] 90b:11047
 Ojanguren, Manuel *see* Colliot-Thélène, Jean-Louis, 90m:14012
 Parshin, A. N. The Bogomolov-Miyaoka-Yau inequality for the arithmetical surfaces and its applications. 90m:14017
 Ramakrishnan, Dinakar Regulators, algebraic cycles, and values of L -functions. 90e:11094
 Scholl, A. J. Modular forms on noncongruence subgroups. 90k:11049
 Sekiguchi, Tsutomu *see* Sekino, Kaoru, 90d:14032
 Sekino, Kaoru (with Sekiguchi, Tsutomu) On the fields of definition for a curve and its Jacobian variety. 90d:14032
 Serre, Jean-Pierre ★ Lectures on the Mordell-Weil theorem. 90e:11086
 Shabat, G. B. *see* Vorvodskii, V. A., 90e:14030
 Vorvodskii, V. A. (with Shabat, G. B.) Equilateral triangulations of Riemann surfaces, and curves over algebraic number fields. 90e:14030
 (Waldschmidt, M.) *see* Serre, Jean-Pierre, 90e:11086

11G35 Varieties over global fields

- Colliot-Thélène, Jean-Louis Arithmétique sur certaines hypersurfaces cubiques. [Arithmetic on certain cubic hypersurfaces] 90d:11076
 — (with Salberger, Per) Arithmetic on some singular cubic hypersurfaces. 90e:11091
 Jannsen, Uwe On the l -adic cohomology of varieties over number fields and its Galois cohomology. 90b:11064
 Minchev, Kh. P. Strong approximation for varieties over an algebraic number field. (Russian. English summary) 90a:11065
 Moret-Bailly, Laurent Groupes de Picard et problèmes de Skolem. I, II. [Picard groups and Skolem problems. I, II] 90i:11065
 Saito, Shuji Some observations on motivic cohomology of arithmetic schemes. 90k:11077
 Salberger, Per On the arithmetic of conic bundle surfaces. 90m:11093a
 — Erratum: "On the arithmetic of conic bundle surfaces". 90m:11093b
 — *see also* Colliot-Thélène, Jean-Louis, 90e:11091

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- Rakassarr, F.** Comparison theorems in algebraic geometry. (Italian. English summary) 90c:14011
- Beukers, F.** (with Manin, Yu. I.) Diophantine equations. 90b:11019
- Brown, Martin Lawrence** Construction de hauteurs locales et globales sur les variétés algébriques. (English summary) [Construction of local and global heights on algebraic varieties] 90a:11068
- (Châtelet, François) *see* Colliot-Thélène, Jean-Louis, 90a:01073
- Colliot-Thélène, Jean-Louis** Les grands thèmes de François Châtelet. [The major work of François Châtelet] 90a:01073
- Dellgè, P.** Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] 90m:14016
- Harbater, David** Galois covers of an arithmetic surface. 90e:14013
- Ichimura, Humio** On the coefficients of the universal power series for Jacobi sums. 90h:1102
- Jannsen, Uwe** On the Galois cohomology of l -adic representations attached to varieties over local or global fields. 90c:14010
- Kato, Kazuya** A generalization of class field theory. (Japanese) 90g:11080
- Manin, Yu. I.** *see* Beukers, F., 90b:11019
- Ooe, Takeshi** (with Top, Jaap) On the Mordell-Weil rank of an abelian variety over a number field. 90g:11076
- Ramakrishnan, Dinakar** Regulators, algebraic cycles, and values of L -functions. 90e:11094
- Smit, Dirk-Jan** Algebraic and arithmetic geometry in string theory. 90c:14014
- Tankeev, S. G.** Surfaces of type $K3$ over number fields, and l -adic representations. 90a:14041
- Thomason, R. W.** A finiteness condition equivalent to the Tate conjecture over F_q . 90b:14029
- Top, Jaap** *see* Ooe, Takeshi, 90g:11076
- Umemura, Hiroshi** On classical numbers. (Japanese) 90g:11099
- Vojta, Paul** A refinement of Schmidt's subspace theorem. 90f:11054
- Wintenberger, Jean-Pierre** Motifs et ramification pour les points d'ordre fini des variétés abéliennes. [Motives and ramification for the points of finite order of abelian varieties] 90h:14063

11G40 L -functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture

- Brylinski, Jean-Luc** Heights for local systems on curves. 90i:11066
- Bump, Daniel** (with Friedberg, Solomon; Hoffstein, Jeffrey) A nonvanishing theorem for derivatives of automorphic L -functions with applications to elliptic curves. 90b:11063
- Cipra, Barry A.** Getting a grip on elliptic curves. 90e:11092
- Deninger, Ch.** Higher regulators of elliptic curves with complex multiplication. 90f:11040
- Higher regulators and Hecke L -series of imaginary quadratic fields. I. 90f:11041
- Frey, Gerhard** L -series of elliptic curves: results, conjectures and consequences. 90e:11093
- Friedberg, Solomon** *see* Bump, Daniel; et al., 90b:11063
- Hoffstein, Jeffrey** *see* Bump, Daniel; et al., 90b:11063
- Jones, John William** Iwasawa L -functions for multiplicative abelian varieties. 90m:11094
- Neukirch, Jürgen** The Beilinson conjecture for algebraic number fields. 90f:11042
- Ramakrishnan, Dinakar** Regulators, algebraic cycles, and values of L -functions. 90e:11094
- Rohrlich, David E.** L -functions and division towers. 90a:11066
- Silverman, Joseph H.** Rational points on certain families of curves of genus at least 2. 90a:11067

Items with secondary classifications in 11G40

- Blasius, Don** (with Ramakrishnan, Dinakar) Maass forms and Galois representations. 90m:11078
- Esnauli, Hélène** On the Loday symbol in the Deligne-Beilinson cohomology. 90j:14025
- Gross, Benedict H.** Local orders, root numbers, and modular curves. 90b:11053
- Henniart, Guy** Cyclotomie et valeurs de la fonction Γ (d'après G. Anderson). [Cyclotomy and values of the Γ -function (following G. Anderson)] 90i:11055
- Katz, Nicholas M.** Travaux de Laumon. (English) [Works of Laumon] 90h:14028
- Klingenberger, Christoph** Survey of the proof of the Tate conjectures for Hilbert-Blumenthal surfaces. 90h:11049
- Kolyagin, V. A.** The Mordell-Weil and Shafarevich-Tate groups for Weil elliptic curves. 90f:11035
- Kramarz, G.** *see* Zagier, Don, 90d:11072
- Morishita, Masanori** Iwasawa theoretical residue formulas for algebraic tori. 90i:11120
- Niederreiter, H.** On a problem of Kodama concerning the Hasse-Witt matrix and the distribution of residues. 90a:11007
- Ramakrishnan, Dinakar** *see* Blasius, Don, 90m:11078
- Rubin, Karl** Descents on elliptic curves with complex multiplication. 90g:11073
- Saito, Shuji** Arithmetic theory of arithmetic surfaces. 90f:11043
- Silverman, Joseph H.** Recent (and not so recent) developments in the arithmetic theory of elliptic curves. 90g:11074
- Ulmer, D. L.** On universal elliptic curves over Igusa curves. 90m:11092
- Zagier, Don** (with Kramarz, G.) Numerical investigations related to the L -series of certain elliptic curves. 90d:11072

11G45 Geometric class field theory [see also 11R37]

- Douai, Jean-Claude** Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps locaux de dimension N . [The Tate-Poitou theorem for function fields of curves defined over N -dimensional local fields] 90m:11095
- Ihara, Yasutaka** (with Saito, Takeshi) Introduction to the work of Kazuya Kato. (Japanese) 90d:11077
- Kato, Kazuya** A generalization of class field theory. (Japanese) 90g:11080
- *see also* Ihara, Yasutaka, 90d:11077
- Nart, Enric** The Bloch complex in codimension one and arithmetic duality. 90j:11057
- Saito, Shuji** Class field theory for two-dimensional local rings. 90h:11053

- Arithmetic theory of arithmetic surfaces. 90f:11043
- Saito, Takeshi** *see* Ihara, Yasutaka, 90d:11077

Items with secondary classifications in 11G45

- Bloch, Spencer** Cycles and biextensions. 90d:14006
- Deninger, Ch.** Duality in the étale cohomology of one-dimensional proper schemes and generalizations. 90a:14023
- Fesenko, I. B.** A generalized symbol in multidimensional local fields. (Russian) 90d:11133
- Kato, Kazuya** Swan conductors for characters of degree one in the imperfect residue field case. 90g:11164
- Meĭnikov, O. V.** (with Sharomet, A. A.) The Galois group of a multidimensional local field of positive characteristic. (Russian) 90j:11131
- Nguyen Kkhak V'et** Minimal models of algebraic curves. (Russian) 90h:14032
- Saito, Shuji** Some observations on motivic cohomology of arithmetic schemes. 90h:11077
- Sharomet, A. A.** *see* Meĭnikov, O. V., 90j:11131

11G99 None of the above, but in this section

- Brown, Martin Lawrence** Construction de hauteurs locales et globales sur les variétés algébriques. (English summary) [Construction of local and global heights on algebraic varieties] 90a:11068
- Items with secondary classifications in 11G99
- Chermouso, V. I.** Projective simplicity of some groups of rational points over algebraic number fields. 90g:20065
- Gérardin, Paul** Le théorème de Riemann-Roch et les corps de nombres algébriques. (English summary) [The Riemann-Roch theorem and algebraic number fields] 90m:11184
- Laumon, Gérard** Un analogue global du cône nilpotent. [A global analogue of the nilpotent cone] 90a:14012
- Nadel, Alan Michael** The nonexistence of certain level structures on abelian varieties over complex function fields. 90e:14044
- Polzin, Marc** Prolongement de la valeur absolue de Gauss et problème de Skolem. (English summary) [Extension of the Gauss valuation, and the Skolem problem] 90e:12020
- Raskind, Wayne** Algebraic K -theory, étale cohomology and torsion algebraic cycles. 90d:14011
- Shioda, Tetsuji** Arithmetic and geometry of Fermat curves. 90a:11037
- Voloch, J. F.** A note on elliptic curves over finite fields. (French summary) 90f:14012

11Hxx Geometry of numbers

- Erdős, Paul** (with Gruber, Peter M.; Hammer, Joseph) ★ Lattice points. 90g:11081
- Gruber, Peter M.** *see* Erdős, Paul; et al., 90g:11081
- Hammer, Joseph** *see* Erdős, Paul; et al., 90g:11081

11H06 Lattices and convex bodies [see also 11P21]

- Banaś, V. V.** Bravais types of lattices of three-dimensional Minkowski space whose holohedron contains rotations around only one real axis. (Russian) (see 90h:11001)
- Chaladas, Stefan** A note on a decomposition of integer vectors. (Russian summary) 90m:11097
- Conway, John Horton** (with Sloane, N. J. A.) Low-dimensional lattices. I. Quadratic forms of small determinant. 90a:11071
- (with Sloane, N. J. A.) Low-dimensional lattices. II. Subgroups of $GL(n, \mathbb{Z})$. 90a:11072
- Erdahl, Robert M.** *see* Ryskhov, S. S., 90d:11078 and 90f:11044
- Jungnickel, Dieter** (with Leclerc, Matthias) A class of lattices. 90a:11069
- Koch, Helmut** (with Venkov, B. B.) Über ganzzahlige unimodulare euklidische Gitter. [On integral unimodular Euclidean lattices] 90g:11082
- Leclerc, Matthias** *see* Jungnickel, Dieter, 90a:11069
- Narzulaliev, Kh. N.** *see* Skubenko, B. F., 90g:11084
- Ryskhov, S. S.** (with Erdahl, Robert M.) The empty sphere. II. 90d:11078
- (with Erdahl, Robert M.) Stepwise construction of L -bodies of lattices. 90f:11044
- Schlägel, A.** A decomposition of integer vectors. III. (Russian summary) 90m:11096
- Shimizu, Tamon** A basis of a lattice in Euclidean space. 90h:11054
- Skribanov, M. M.** Lattices in algebraic number fields. 90g:11083
- Skubenko, B. F.** (with Narzulaliev, Kh. N.) On an analogue of Kronecker's theorem. (Russian) 90g:11084
- Sloane, N. J. A.** *see* Conway, John Horton, 90a:11071 and 90a:11072
- Venkov, B. B.** *see* Koch, Helmut, 90g:11082
- Voskresenskii, V. E.** Calculation of local volumes in the Siegel-Tamagawa formula. 90h:11055
- Wills, J. M.** A counterpart to Oler's lattice-point theorem. 90m:11098

Items with secondary classifications in 11H06

- Brion, Michel** Points entiers dans les polyèdres convexes. [Lattice points in convex polyhedra] 90d:52020
- Cartier, Pierre** Classification des systèmes quasi cristallins de type icosaédrique. (English summary) [Classification of icosahedral quasicrystalline systems] 90d:82030
- Conway, John Horton** (with Sloane, N. J. A.) Low-dimensional lattices. IV. The mass formula. 90a:11074
- (with Sloane, N. J. A.) Low-dimensional lattices. V. Integral coordinates for integral lattices. 90m:11100
- Fainleib, A. S.** *see* Tulyaganova, M. I., 90j:11095
- Furst, Merrick L.** (with Kannan, Ravi) Succinct certificates for almost all subset sum problems. 90h:11148
- Girault, Marc** *see* Vallée, Brigitte; et al., 90k:11168
- Just, Bettina** Integer relations among algebraic numbers. 90m:11109
- Kannan, Ravi** *see* Furst, Merrick L., 90h:11148
- Lang, Mong-Lung** On a question raised by Conway-Norton. 90h:11039
- Liebeck, Hans** *see* Osborne, Anthony, 90d:11035
- Lovász, László** Geometry of numbers: an algorithmic view. 90g:11172

Niederreiter, H. (with Sloan, I. H.) Lattice rules for multiple integration and discrepancy. 90f:65036

Osborne, Anthony (with Liebeck, Hans) Orthogonal bases of \mathbb{R}^3 with integer coordinates and integer lengths. 90d:11035

Pham Hà'u Tiệp Lattices not of root type in the Lie algebras B_3 and D_4 . 90e:17016

Rabinowitz, Stanley Some metric inequalities for lattice polygons. 90c:52028

Schellekens, A. N. Lattice constructions of fermionic strings. 90k:81244

Scott, Paul R. Properties of axial diameters. 90c:52023

Skriganov, M. M. Lattices in algebraic number fields and uniform distribution mod 1. (Russian) 90k:11155

Sloan, I. H. see Niederreiter, H., 90f:65036

Sloane, N. J. A. see Conway, John Horton, 90a:11074 and 90m:11100

Toffin, Philippe see Vallée, Brigitte; et al., 90k:11168

Tutyaganova, M. I. (with Fainleib, A. S.) Complete integer lattices, and sums of multiplicative functions. (Russian) 90j:11095

Uhrin, B. Brunn-Minkowski-Lusternik inequality, its sharpenings, extensions and some applications. (Hungarian summary) 90c:52024

Vallée, Brigitte (with Girault, Marc; Toffin, Philippe) How to guess t th roots modulo n by reducing lattice bases. 90k:11168

— La réduction des réseaux. Autour de l'algorithme de Lenstra, Lenstra, Lovász. (English summary) [Lattice reduction: the Lenstra-Lenstra-Lovász algorithm] 90k:11149

11H16 Nonconvex bodies

Uhrin, B. On the star number of a set-lattice. (Hungarian summary) 90f:11045

11H25 Minkowski-Hlawka theorem; Siegel mean value theorem

Itin, I. V. A remark on bounds in the inhomogeneous Minkowski conjecture for large dimensions. (Russian) (see 90k:11001)

Uhrin, B. Dispersions, projections and measure of covering in Euclidean spaces. (Hungarian summary) 90f:11046

11H31 Lattice packing and covering [see also 05B40, 52A45]

Khuramov, A. The densest packing by balls of a single-type of \mathbb{R}^n for $n \leq 24$. (Russian) (see 90c:00005)

Matsumoto, Takeo Packing of ellipsoids. (Japanese) 90j:11058

Ozeki, Michio Ternary code construction of even unimodular lattices. 90k:11067

Rodin, Burt Schwarz's lemma for circle packings. II. 90m:11099

Shekhtovtsov, S. B. (with Yakovlev, S. V.) A class of problems of a lattice covering of a bounded domain. (Russian) 90j:11085

Yakovlev, S. V. see Shekhtovtsov, S. B., 90j:11085

Yugat, S. A. Application of demonstrative calculations on a computer to improving the estimate of the largest density of a packing of equal balls. (Russian) 90f:11047

Items with secondary classifications in 11H31

Calderbank, A. R. (with Sloane, N. J. A.) Inequalities for covering codes. 90f:94039

Cusick, Thomas W. Units in real cyclic quartic fields. 90m:11166

(Escher, M. C.) see Schattschneider, Doris, 90b:01054

Evdokimov, A. A. (with Malyugin, S. A.) The "snake in a box" code and paths in a lattice on a torus. (Russian) 90m:94048

Graham, R. L. (with Sloane, N. J. A.) Penny-packing and two-dimensional codes. 90j:52016

Heppes, A. On the solidity of packings of incongruent circles. I. (Hungarian summary) 90c:52029

Kabatianskii, G. A. (with Panchenko, V. I.) Packings and coverings of the Hamming space by balls of unit radius. 90j:94031

Klein, Rolf Voronoi diagrams in the Moscow metric (extended abstract). (see 90b:60091)

Leech, John (with Tarnai, T.) Arrangements of 22 circles on a sphere. 90k:52028

van Lint, J. H. Recent results on covering problems. 90f:94011

Malyugin, S. A. see Evdokimov, A. A., 90m:94048

Panchenko, V. I. Packings and coverings over an arbitrary alphabet. 90j:94032

— see also Kabatianskii, G. A., 90j:94031

Pianzola, A. (with Weiss, Alfred R.) Monstrous E_{10} 's and a generalization of a theorem of L. Solomon. 90k:22007

(Pólya, George) see Schattschneider, Doris, 90b:01054

Pott, Gregory J. (with Taylor, Desmond P.) Sphere-packing upper bounds on the free distance of trellis codes. 90a:94046

Rodin, Burt (with Sullivan, Dennis) The convergence of circle packings to the Riemann mapping. 90c:30007

Schattschneider, Doris The Pólya-Escher connection. 90b:01054

Simmons, Juriaan Covering radius: improving on the sphere-covering bound. 90b:94046

Sloane, N. J. A. see Calderbank, A. R., 90f:94039 and Graham, R. L., 90j:52016

Sullivan, Dennis see Rodin, Burt, 90c:30007

Tarnai, T. see Leech, John, 90k:52028

Taylor, Desmond P. see Pott, Gregory J., 90a:94046

Wang, Cheng Shu An upper bound on average touching number of a Voronoi partition. 90d:52015

Weiss, Alfred R. see Pianzola, A., 90k:22007

Wills, J. M. A counterpart to Oler's lattice-point theorem. 90m:11098

11H41 Miscellaneous problems

Grekos, Georges Sur le nombre de points entiers d'une courbe convexe. (English summary) [On the number of integer points of a convex curve] 90e:11095

Nilzeck, Komajiro Self-similarity of quasilattices in two dimensions. I. The n -gonal

quasilattice. 90k:11078

— Self-similarity of quasilattices in two dimensions. II. The "non-Bravais-type" n -gonal quasilattice. 90k:11079

Items with secondary classifications in 11H41

Reznick, Bruce Forms derived from the arithmetic-geometric inequality. 90i:11043

11H46 Products of linear forms

Akramov, U. A. An upper bound on the product of six real linear forms. (Russian) 90f:11048

Grover, V. K. The asymmetric product of three inhomogeneous linear forms. 90g:11086

Skubenko, B. F. Minima of a decomposable cubic form in three variables. (Russian) 90a:11070

Items with secondary classifications in 11H46

Ball, Keith (with Pajor, Alain) Convex bodies with few faces. 90m:52011

Pajor, Alain see Ball, Keith, 90m:52011

11H50 Minima of forms

Abdullaev, N. S. Functions that are connected with the theory of indeterminate binary quadratic forms. (Russian) 90c:11043

Conway, John Horton (with Sloane, N. J. A.) Low-dimensional lattices. III. Perfect forms. 90a:11073

— (with Sloane, N. J. A.) Errata: "Low-dimensional lattices. III. Perfect forms" [Proc. Roy. Soc. London Ser. A 418 (1988), no. 1854, 43–80; MR 90a:11073]. 90j:11059

Cook, Roger J. Small fractional parts of additive forms. 90j:11087

Dumir, V. C. (with Grover, V. K.) Some asymmetric inequalities for nonhomogeneous indefinite binary quadratic forms. 90d:11079

Grover, V. K. see Dumir, V. C., 90d:11079

Sloane, N. J. A. see Conway, John Horton, 90a:11073 and 90j:11059

Items with secondary classifications in 11H50

Asanov, T. U. Transfer theorems in the inhomogeneous Minkowski conjecture. (Russian) 90b:11064

Bergé, A.-M. (with Martinet, Jacques) Sur un problème de dualité lié aux sphères en géométrie des nombres. (English summary) [A duality problem associated with spheres in the geometry of numbers] 90j:11088

Kratko, M. I. (with Yanovich, I. I.) A Diophantine Markov equation and its generalizations. (Russian) 90m:11101

Martinet, Jacques see Bergé, A.-M., 90j:11088

Skubenko, B. F. Minima of a decomposable cubic form in three variables. (Russian) 90a:11070

Yanovich, I. I. Some cases of solution of the generalized Markov equation. (Russian) 90k:11031

— see also Kratko, M. I., 90m:11101

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

Bergé, A.-M. (with Martinet, Jacques) Sur un problème de dualité lié aux sphères en géométrie des nombres. (English summary) [A duality problem associated with spheres in the geometry of numbers] 90j:11088

Conway, John Horton (with Sloane, N. J. A.) Low-dimensional lattices. IV. The mass formula. 90a:11074

— (with Sloane, N. J. A.) Low-dimensional lattices. V. Integral coordinates for integral lattices. 90m:11100

Dani, S. G. (with Margulis, G. A.) Values of quadratic forms at primitive integral points. (French summary) 90d:11080

Kratko, M. I. (with Yanovich, I. I.) A Diophantine Markov equation and its generalizations. (Russian) 90m:11101

Margulis, G. A. see Dani, S. G., 90d:11080

Martinet, Jacques see Bergé, A.-M., 90j:11088

Rickert, Neil W. Efficient reduction of quadratic forms. 90f:11049

Schlickewel, Hans Peter (with Schmidt, Wolfgang M.) Isotrope Unterräume rationaler quadratischer Formen. [Isotropic subspaces of rational quadratic forms] 90b:11056

Schmidt, Wolfgang M. see Schlickewel, Hans Peter, 90b:11056

Shashbaev, S. Sh. On determining the integral equivalence of perfect forms. (Russian) 90f:11050

— A method for determining integer equivalence of positive-definite quadratic forms. (Russian) 90d:11081

— A Voronoi neighborhood of the perfect form $\varphi_{20}(x_1, \dots, x_7)$. (Russian) 90h:11057

Sloane, N. J. A. see Conway, John Horton, 90a:11074 and 90m:11100

Teterin, Yu. G. An approach to reduction theories. (Russian) (see 90b:11001)

Yanovich, I. I. see Kratko, M. I., 90m:11101

Items with secondary classifications in 11H55

Bannai, Etsuko Positive definite unimodular lattices with trivial automorphism groups. 90j:11030

Borel, A. (with Prasad, Gopal) Valeurs de formes quadratiques aux points entiers. (English summary) [Values of quadratic forms at integral points] 90j:11031

Conrey, J. Brian (with Smiley, Michael W.) Some geometric aspects of hyperbolic boundary value problems. 90f:35119

Dani, S. G. (with Margulis, G. A.) Values of quadratic forms at primitive integral points. 90k:22013b

Duke, W. (with Schulze-Pillot, Rainer) Representation of integers by positive ternary quadratic forms and equidistribution of lattice points on ellipsoids. 90m:11051

Dumir, V. C. (with Grover, V. K.) Some asymmetric inequalities for nonhomogeneous indefinite binary quadratic forms. 90d:11079

Engel, Peter Mathematical problems in modern crystallography. 90e:82071

Girault, Marc see Vallée, Brigitte; et al., 90f:94035

Grover, V. K. *see* Dumir, V. C., 90d:11079

Kubenski, M. N. Theory of rotations. (Russian) (*see* 90h:11001)

Lachaud, Gilles. Continued fractions, binary quadratic forms, quadratic fields, and zeta functions. 90j:11032

Li, De Lang (with Lu, Hong Wen). Quadratic forms and Hermitian forms. 90b:11031

La, Hong Wen *see* Li, De Lang, 90b:11031

Margulis, G. A. Discrete subgroups and ergodic theory. 90k:22013a

— *see also* Dani, S. G., 90k:22013b

Mushtaq, Q. Reduced indefinite binary quadratic forms and orbits of the modular group. (Serbo-Croatian summary) 90d:11044

Ozeki, Michio. Ternary code construction of even unimodular lattices. 90i:11067

Prasad, Gopal *see* Borel, A., 90j:11031

Schulze-Pillot, Rainer *see* Duke, W., 90m:11051

Shashbaev, S. Sh. Local minima of the Epstein zeta function. 90k:11040

Smiley, Michael W. *see* Conrey, J. Brian, 90f:35119

Toffin, Philippe *see* Vallée, Brigitte; et al., 90f:94035

Vallée, Brigitte (with Girault, Marc; Toffin, Philippe). How to break Okamoto's cryptosystem by reducing lattice bases. 90f:94035

Vokresenskii, V. E. Calculation of local volumes in the Siegel-Tamagawa formula. 90h:11055

11H60 Mean value and transfer theorems

Asanov, T. U. Transfer theorems in the inhomogeneous Minkowski conjecture. (Russian) 90b:11064

11H99 None of the above, but in this section

Gruber, Boris. Reduced cells based on extremal principles. 90f:11051

Items with secondary classifications in 11H99

Brualdi, Richard A. (with Pless, Vera S.; Wilson, Richard M.) Short codes with a given covering radius. 90g:94016

Harborth, Heiko (with Oertel, Philipp; Prellberg, Thomas). No-three-in-line for seventeen and nineteen. 90f:05041

Jegier, Jadwiga (with Rycerz, Anna). An integer version of Weyl's theorem. (Polish summary) 90h:90120

Oertel, Philipp *see* Harborth, Heiko; et al., 90f:05041

Paysant-Le Roux, R. Calibre d'un corps global. [Caliber of a global field] 90e:11165

Pless, Vera S. *see* Brualdi, Richard A.; et al., 90g:94016

Prellberg, Thomas *see* Harborth, Heiko; et al., 90f:05041

Rycerz, Anna *see* Jegier, Jadwiga, 90h:90120

Wilson, Richard M. *see* Brualdi, Richard A.; et al., 90g:94016

11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

Chudnovsky, David V. (with Chudnovsky, Gregory V.) Use of computer algebra for Diophantine and differential equations. 90e:11096

Chudnovsky, Gregory V. *see* Chudnovsky, David V., 90e:11096

(Ramanujan, Srinivasa) *see* Waldschmidt, M., 90j:11089

Waldschmidt, M. Some transcendental aspects of Ramanujan's work. 90g:11089

Xu, Guang Shan. Diophantine approximation and transcendental number theory. 90d:11082

11J04 Homogeneous approximation to one number

Kiss, P. (with Tichy, R. F.) A discrepancy problem with applications to linear recurrences. I. 90j:11060a

— (with Tichy, R. F.) A discrepancy problem with applications to linear recurrences. II. 90j:11060b

van Ravenstein, Tony *see* Winley, Graham; et al., 90i:11068

Schuppar, Berthold. Gute rationale Näherungen für reelle Zahlen. [Good rational approximations for real numbers] 90m:11102

Tichy, R. F. *see* Kiss, P., 90j:11060a and 90j:11060b

Tognetti, Keith *see* Winley, Graham; et al., 90i:11068

Winley, Graham (with Tognetti, Keith; van Ravenstein, Tony). Hurwitz's theorem and the continued fraction with constant terms. 90i:11068

Items with secondary classifications in 11J04

Kraikamp, C. Statistic and ergodic properties of Minkowski's diagonal continued fraction. 90m:11120

Tong, Jing Cheng. A theorem on approximation of irrational numbers by simple continued fractions. 90e:11101

11J06 Markov and Lagrange spectra and generalizations

Cusick, Thomas W. (with Flahive, Mary E.) ★ The Markoff and Lagrange spectra. 90i:11069

Flahive, Mary E. *see* Cusick, Thomas W., 90i:11069

Goldman, Jay R. Hurwitz sequences, the Farey process, and general continued fractions. 90b:11065

Prasad, K. C. A note on asymmetric approximations. 90f:11052

— On gaps of Lagrange spectrum. 90i:11070

Items with secondary classifications in 11J06

Haas, Andrew Howard. Diophantine approximation on hyperbolic orbifolds. 90e:11031

Yanovich, I. I. Solutions of the generalized Diophantine equation of Markov for $k > (n + 1)/6$. (Russian) 90f:11020

11J13 Simultaneous homogeneous approximation, linear forms

Ably, Mohammed. Mesure d'approximation simultanée. (English summary) [Simultaneous approximation measure] 90g:11090

Cusick, Thomas W. Products of simultaneous approximations of rational numbers. 90e:11071

D'Souza, Harry. Trapping a real number between adjacent rationals. 90i:11072

Harman, Glyn. Simultaneous Diophantine approximation with primes. 90g:11091

Katsurada, Masanori. Linear independence measures for values of Heine series. 90f:11053

de Mathan, B. Exposants d'approximation. [Exponents of approximation] 90d:11083

Podsypanin, E. V. Simultaneous Diophantine approximations of algebraic numbers and Littlewood's conjecture. (Russian) (*see* 90h:11001)

Schmidt, Wolfgang M. The subspace theorem in Diophantine approximations. 90d:11084

Vojta, Paul. A refinement of Schmidt's subspace theorem. 90f:11054

Items with secondary classifications in 11J13

Bernik, V. I. (with Markovitch, N. I.) Diophantine approximations with coefficients that depend on a parameter. (Russian. English summary) 90a:11080

Everest, G. R. A "Hardy-Littlewood" approach to the S-unit equation. 90g:11124

Håstad, J. (with Just, Bettina; Lagarias, J. C.; Schnorr, C.-P.) Polynomial time algorithms for finding integer relations among real numbers. 90g:11171

Just, Bettina *see* Håstad, J.; et al., 90g:11171

Lagarias, J. C. *see* Håstad, J.; et al., 90g:11171

Markovitch, N. I. *see* Bernik, V. I., 90a:11080

Philippon, P. (with Waldschmidt, M.) Formes linéaires de logarithmes simultanées sur les groupes algébriques commutatifs. [Simultaneous linear forms of logarithms on commutative algebraic groups] 90e:11113

Schnorr, C.-P. *see* Håstad, J.; et al., 90g:11171

Väänänen, K. Application of Hermite-Mahler polynomials to the approximation of the values of p -adic exponential function. 90m:11055

Waldschmidt, M. *see* Philippon, P., 90e:11113

11J17 Approximation by numbers from a fixed field

Bombieri, E. (with van der Poorten, A. J.) Corrigenda: "Some quantitative results related to Roth's theorem" [J. Austral. Math. Soc. Ser. A. 45 (1988), no. 2, 233–248; MR 89i:11075]. 90m:11103

van der Poorten, A. J. Remarks on Roth's theorem. 90g:11092

— *see also* Bombieri, E., 90m:11103

Items with secondary classifications in 11J17

Amoroso, Francesco. Some remarks about algebraic independence measures in high dimension. (French summary) 90i:11076

Nakada, Hitoshi. On metric Diophantine approximation of complex numbers, complex continued fractions. 90f:11067

11J20 Inhomogeneous linear forms

Samushenok, I. N. An arithmetic characteristic of irrational numbers in a linear inhomogeneous problem in the theory of Diophantine approximations. (Russian) 90k:11080

Items with secondary classifications in 11J20

Narzullaev, Kh. N. *see* Skubenko, B. F., 90g:11084

Philippon, P. (with Waldschmidt, M.) Lower bounds for linear forms in logarithms. 90b:11072

Skubenko, B. F. (with Narzullaev, Kh. N.) On an analogue of Kronecker's theorem. (Russian) 90g:11084

Waldschmidt, M. *see* Philippon, P., 90b:11072

Wang, Lian Xiang (with Yuan, Jin). Simultaneous approximation lattices of p -adic numbers. 90j:11062

Yuan, Jin *see* Wang, Lian Xiang, 90j:11062

11J25 Diophantine inequalities [see also 11D75]

Bernik, V. I. Diophantine approximations on differentiable manifolds. (Russian. English summary) 90k:11081

Mashanov, V. I. Metric properties of a class of polynomials in several variables. (Russian. English summary) 90k:11082

Items with secondary classifications in 11J25

Delmer, Francine (with Deshouillers, Jean-Marc). On the computation of $g(k)$ in Waring's problem. 90i:11109

Deshouillers, Jean-Marc *see* Delmer, Francine, 90i:11109

Lang, Serge. Old and new conjectured Diophantine inequalities. 90k:11032

Mazurov, M. E. A geometric method for studying solutions of Diophantine inequalities. (Russian) 90k:11033

Mueller, Julia. Good rational approximation derived from Thue's inequality. 90d:11043

Prasad, K. C. A note on asymmetric approximations. 90f:11052

Schmidt, Wolfgang M. The number of solutions of norm form equations. 90d:11041

Srinivasan, Seshadri. A Diophantine inequality with prime variables. 90a:11042

Wang, Yuan. Diophantine equations and Diophantine inequalities in algebraic number fields. 90b:11027

— Diophantine inequalities for forms in an algebraic number field. 90i:11021

11J37 Products of n linear forms in n variables ($n \geq 2$) [See mainly 11H46]

Items with secondary classifications in 11J37

Akramov, U. A. An upper bound on the product of six real linear forms. (Russian) 90f:11048

11J45 Minima of quadratic forms in more than two variables [See mainly 11H50]

Items with secondary classifications in 11J45

- Dumir, V. C. (with Grover, V. K.) Some asymmetric inequalities for nonhomogeneous indefinite binary quadratic forms. **90d:11079**
 Grover, V. K. *see* Dumir, V. C., **90d:11079**

11J54 Small fractional parts of polynomials and generalizations

- Friedlander, John B. Fractional parts of sequences. **90m:11104**
 Huxley, M. N. The fractional parts of a smooth sequence. **90b:11066**

Items with secondary classifications in 11J54

- Gross, Fred (with Osgood, Charles F.) Diophantine approximation to the value distribution theory of meromorphic functions. **90m:30037**
 Osgood, Charles F. *see* Gross, Fred, **90m:30037**

11J61 Approximation in non-Archimedean valuations

- Bézivin, J.-P. (with Robba, P.) Solutions rationnelles d'équations différentielles. Application à un problème de transcendance. [Rational solutions of differential equations. Application to a transcendence problem] **90j:11061**

- Knopfmacher, Arnold (with Knopfmacher, John) A binomial product representation for p -adic numbers. **90c:11097**
 — (with Knopfmacher, John) Series expansions in p -adic and other non-Archimedean fields. **90i:11073**
 — (with Knopfmacher, John) p -adic and non-Archimedean product representations. **90c:11098**

- Knopfmacher, John *see* Knopfmacher, Arnold, **90c:11097**; **90c:11098** and **90i:11073**
 Nesterenko, Yu. V. Estimates for the number of zeros of certain functions. **90d:11085**
 Nishikawa, Kumiko p -adic transcendental numbers. **90c:11099**
 Robba, P. *see* Bézivin, J.-P., **90j:11061**
 Väinänen, K. Application of Hermite-Mahler polynomials to the approximation of the values of p -adic exponential function. **90m:11105**
 Wang, Lian Xiang (with Yuan, Jin) Simultaneous approximation lattices of p -adic numbers. **90j:11062**
 Yuan, Jin An approximation theorem for p -adic algebraic numbers. (Chinese. English summary) **90d:11086**
 — *see also* Wang, Lian Xiang, **90j:11062**

Items with secondary classifications in 11J61

- Bedocchi, Edmondo Remarks on periods of p -adic continued fractions. (Italian summary) **90j:11093**
 Bézivin, J.-P. (with Robba, P.) A new p -adic method for proving irrationality and transcendence results. **90c:11107**
 Bombieri, E. (with van der Poorten, A. J.) Corrigenda: "Some quantitative results related to Roth's theorem" [J. Austral. Math. Soc. Ser. A. **45** (1988), no. 2, 233–248; MR **89i:11075**]. **90m:11103**
 Kukkasjärvi, M. (with Matala-Aho, T.; Väinänen, K.) On irrationality measures of certain F -adic numbers. **90k:11088**
 Matala-Aho, T. *see* Kukkasjärvi, M.; et al., **90k:11088**
 van der Poorten, A. J. *see* Bombieri, E., **90m:11103**
 Robba, P. *see* Bézivin, J.-P., **90c:11107**
 Schmidt, Klaus D. Mixing automorphisms of compact groups and a theorem by Kurt Mahler. **90c:28031**
 Shidlovskii, A. B. On the problem of algebraic independence of values of E -functions at algebraic points. **90c:11111**
 Väinänen, K. *see* Kukkasjärvi, M.; et al., **90k:11088**
 Yu, Kun Rui Linear forms in p -adic logarithms. **90k:11093**
 Zhu, Yao Chen On a criterion of algebraic independence of numbers. **90h:11064**

11J68 Rational approximation to algebraic numbers

Items with secondary classifications in 11J68

- Bombieri, E. (with van der Poorten, A. J.) Corrigenda: "Some quantitative results related to Roth's theorem" [J. Austral. Math. Soc. Ser. A. **45** (1988), no. 2, 233–248; MR **89i:11075**]. **90m:11103**
 Buchmann, J. (with Pethő, Attila) Computation of independent units in number fields by Dirichlet's method. **90i:11162**
 Lang, Serge The error term in Nevanlinna theory. II. **90k:32080**
 Luckhardt, H. Herbrand-Analysen zweier Beweise des Satzes von Roth: Polynomiale Anzahlschranken. (English summary) [Herbrand analyses of two proofs of Roth's theorem: polynomial bounds on cardinality] **90k:03056**
 Pethő, Attila *see* Buchmann, J., **90i:11162**
 van der Poorten, A. J. *see* Bombieri, E., **90m:11103**

11J69 Simultaneous rational approximation to algebraic numbers

Items with secondary classifications in 11J69

- Cusick, Thomas W. Products of simultaneous approximations of rational numbers. **90i:11071**
 Lang, Serge The error term in Nevanlinna theory. II. **90k:32080**
 Xu, Guang Shan Diophantine approximation and transcendental number theory. **90d:11082**

11J70 Continued fractions and generalizations [see also 11A55, 11K50]

- Bedocchi, Edmondo Remarks on periods of p -adic continued fractions. (Italian summary) **90j:11093**

- Dzenskevich, E. A. (with Shapiro, A. P.) On the expansion of irrationalities of third and fourth degree into a continued fraction. (Russian) **90k:11083**

- Irwin, M. C. Geometry of continued fractions. **90j:11063**

- Ito, Shunji On Legendre's theorem related to Diophantine approximations. **90b:11067**

- Jager, H. (with Kraaikamp, C.) On the approximation by continued fractions. **90k:11084**

- Kopetzky, Hans G. Some results on Diophantine approximation related to Dirichlet's theorem. **90k:11085**

- Kraaikamp, C. *see* Jager, H., **90k:11084**

- Lakhtakia, Akhlesh (with Messier, R.; Varadan, V. V.; Varadan, V. K.) Incommensurate numbers, continued fractions, and fractal immitances. **90a:11075**

- Messier, R. *see* Lakhtakia, Akhlesh; et al., **90a:11075**

- van Ravenstein, Tony The three gap theorem (Steinhaus conjecture). **90a:11076**

- Optimal spacing of points on a circle. **90c:11100**

- Shapiro, A. P. *see* Dzenskevich, E. A., **90k:11083**

- Tang, Jing Cheng A theorem on approximation of irrational numbers by simple continued fractions. **90c:11101**

- Symmetric and asymmetric Diophantine approximation of continued fractions. (French summary) **90k:11086**

- Varadan, V. K. *see* Lakhtakia, Akhlesh; et al., **90a:11075**

- Varadan, V. V. *see* Lakhtakia, Akhlesh; et al., **90a:11075**

Items with secondary classifications in 11J70

- Achuthan, P. (with Sundar, S.) Ramanujan functions, continued fractions and rational approximants. **90j:11103**
 Bedocchi, Edmondo A note on p -adic continued fractions. (Italian. English summary) **90d:11014**
 Beukers, F. (with Top, Jaap) On oranges and integral points on certain plane cubic curves. **90h:11046**
 Bosma, Wieb Approximation by mediant. **90m:11119**
 Cusick, Thomas W. Products of simultaneous approximations of rational numbers. **90i:11071**
 Golubeva, E. P. On the lengths of the periods of a continued fraction expansion of quadratic irrationalities and on the class numbers of real quadratic fields. II. (Russian) **90c:11085**
 Hovstad, R. M. The classical irrationality problem for T -fractions. **90m:40001**
 Knopfmacher, Arnold (with Knopfmacher, John) Infinite series representations for complex numbers. **90c:11018**
 — (with Knopfmacher, John) The exact length of the Euclidean algorithm in $F_q[X]$. **90d:11136**
 — (with Knopfmacher, John) Series expansions in p -adic and other non-Archimedean fields. **90i:11073**
 Knopfmacher, John *see* Knopfmacher, Arnold, **90d:11136**; **90c:11018** and **90i:11073**
 Kraaikamp, C. Statistic and ergodic properties of Minkowski's diagonal continued fraction. **90m:11120**
 Lachaud, Gilles Continued fractions, binary quadratic forms, quadratic fields, and zeta functions. **90j:11032**
 Luckhardt, H. Herbrand-Analysen zweier Beweise des Satzes von Roth: Polynomiale Anzahlschranken. (English summary) [Herbrand analyses of two proofs of Roth's theorem: polynomial bounds on cardinality] **90k:03056**
 Nakada, Hitoshi On metric Diophantine approximation of complex numbers, complex continued fractions. **90f:11067**
 Peretti, A. The irrationality of Euler's constant. II. **90d:11087**
 Prasad, K. C. A note on asymmetric approximations. **90f:11052**
 van Ravenstein, Tony *see* Winley, Graham; et al., **90i:11068**
 Schuppar, Berthold Gute rationale Näherungen für reelle Zahlen. [Good rational approximations for real numbers] **90m:11102**
 Sundar, S. *see* Achuthan, P., **90j:11103**
 Tognetti, Keith *see* Winley, Graham; et al., **90i:11068**
 Top, Jaap *see* Beukers, F., **90h:11046**
 Winley, Graham (with Tognetti, Keith; van Ravenstein, Tony) Hurwitz's theorem and the continued fraction with constant terms. **90i:11068**

11J71 Distribution modulo one [see also 11K06]

Items with secondary classifications in 11J71

- Berend, Daniel Irrational dilations of approximate multiplicative semigroups of integers. **90i:11079**
 Blanksby, P. E. (with Lloyd-Smith, C. W.; McAuley, M. J.) On diameters of algebraic integers. **90j:11106**
 Fujii, Akio Diophantine approximation, Kronecker's limit formula and the Riemann hypothesis. **90i:11091**
 Hellekalek, P. (with Larcher, G.) On functions with bounded remainder. (French summary) **90c:28024**
 Huxley, M. N. The fractional parts of a smooth sequence. **90b:11066**
 Kano, Takeshi A fundamental problem in the theory of uniform distribution of sequences. **90m:11114**
 Langevin, M. (with Reyssat, É.; Rhin, Georges) Diamètres transfinis et problème de Favard. (English summary) [Transfinite diameters and the Favard problem] **90b:11103**
 — Solution des problèmes de Favard. (English summary) [Solution of Favard problems] **90b:11104**
 Larcher, G. On the distribution of s -dimensional Kronecker-sequences. **90f:11065**
 — *see also* Hellekalek, P., **90c:28024**
 Lloyd-Smith, C. W. *see* Blanksby, P. E.; et al., **90j:11106**
 McAuley, M. J. *see* Blanksby, P. E.; et al., **90j:11106**
 Reyssat, É. *see* Langevin, M.; et al., **90b:11103**

- Rhin, Georges. *see* Langevin, M.; et al., 90b:11103
 Salikhov, V. Kh. On reducibility and linear reducibility of linear differential equations. (Russian) 90m:12010
 Skraganov, M. M. Lattices in algebraic number fields and uniform distribution mod 1. (Russian) 90k:11155

11J72 Irrationality; linear independence over a field

- Bundschuh, Peter (with Waldschmidt, M.) Irrationality results for theta functions by Gelfond-Schneider's method. 90m:11106
 Mendes France, Michel A Diophantine problem. 90j:11064
 Peretti, A. The irrationality of Euler's constant. II. 90d:11087
 Shan, Zan (with Wang, Edward T.) Generalization of a theorem of Mahler. 90f:11055
 Shirasaka, Shigeshi On a theorem of S. Chowla. 90d:11088
 Sorokin, V. N. Linear independence of logarithms of some rational numbers. 90m:11107
 Välinen, K. (with Wallisser, R. V.) Zu einem Satz von Skolem über lineare Unabhängigkeit von Werten gewisser Thetareihen. (English summary) [On a theorem of Skolem on linear independence of values of certain theta series] 90j:11065
 Waldschmidt, M. *see* Bundschuh, Peter, 90m:11106
 Wallisser, R. V. *see* Välinen, K., 90j:11065
 Wang, Edward T. *see* Shan, Zan, 90f:11055
 Yu, Hong Bing A note on a theorem of Mahler. (Chinese) 90c:11044

Items with secondary classifications in 11J72

- Allouche, Jean-Paul (with Mendes France, Michel; van der Poorten, A. J.) Indépendance algébrique de certaines séries formelles. (English summary) [Algebraic independence of certain formal power series] 90b:11060
 André-Jennin, Richard Irrationalité de la somme des inverses de certaines suites récurrentes. (English summary) [The irrationality of the sum of reciprocals in certain recurrent sequences] 90b:11012
 Drmota, M. Abschätzungen ganzzahliger Polynome auf dem Intervall $[0, 1]$. [Estimates of integral polynomials on the interval $[0, 1]$] 90b:26018
 Fujii, Akio Some problems of Diophantine approximation and a Kronecker's limit formula. 90f:11064
 Horstad, R. M. The classical irrationality problem for T -fractions. 90m:40001
 de Mathan, B. Exposants d'approximation. [Exponents of approximation] 90d:11083
 Mendes France, Michel *see* Allouche, Jean-Paul; et al., 90b:11060
 van der Poorten, A. J. *see* Allouche, Jean-Paul; et al., 90b:11060

11J81 Transcendence (general theory)

- Bertrand, D. Galois representations and transcendental numbers. 90a:11077
 Beukers, F. Some new results on algebraic independence of E -functions. 90a:11078 (Brownawell, W. Dale) *see* Shidlovskii, A. B., 90j:11066
 Diaz, Guy Généralisation d'un résultat de W. D. Brownawell-M. Waldschmidt. (English summary) [Generalization of a result of W. D. Brownawell and M. Waldschmidt] 90i:11074
 Hirata-Kohno, Noriko Approximation de périodes de fonctions méromorphes. [Approximation of periods of meromorphic functions] 90m:11108
 (Koblitz, Neal) *see* Shidlovskii, A. B., 90j:11066
 Loxton, J. H. Automata and transcendence. 90b:11068
 Oryan, M. H. Über gewisse Potenzreihen, die für algebraische Argumente Werte aus der Mahlerschen Unterklasse U_m nehmen. (Turkish summary) [On certain power series which for algebraic arguments take values from the Mahler subclasses U_m] 90b:11102
 — Über die Unterklasse U_m der Mahlerschen Klasseneinteilung der transzendenten formalen Laurentreihen. (Turkish summary) [On the subclasses U_m of Mahler's classification of transcendental formal Laurent series] 90b:11103
 Sharif, Habib *see* Woodcock, Christopher F., 90i:11075
 Shidlovskii, A. B. ★ Transcendental numbers. 90j:11066
 Sieburg, Hans-Bernad Transcendence theory over nonlocal fields. 90b:11058
 Waldschmidt, M. On the transcendence methods of Gelfond and Schneider in several variables. 90d:11089
 Wallisser, R. V. On entire functions assuming integer values in a geometric sequence. 90j:11067
 Woodcock, Christopher F. (with Sharif, Habib) On the transcendence of certain series. 90i:11075
 Wüstholz, G. Multiplicity estimates on group varieties. 90g:11100
 Zeren, Bedriye M. Über einige komplexe und p -adische Lückenreihen mit Werten aus den Mahlerschen Unterklassen U_m . (Turkish summary) [On some complex and p -adic gap series with values from Mahler's subclasses U_m] 90b:11104

Items with secondary classifications in 11J81

- Angell, David The limiting behaviour of certain sequences of continued fractions. 90a:11015
 Berenstein, Carlos A. (with Yger, Alain) Calcul de résidus et problèmes de division. (English summary) [Residue calculus and division problems] 90d:32007
 Brownawell, W. Dale Applications of Cayley-Chow forms. 90b:11061
 (Durand, Alain) *see* Fifty years of polynomials, 90j:00018
 (Langevin, M.) *see* Fifty years of polynomials, 90j:00018
 Langmann, Klaus Holomorphe Abbildungen zwischen quasiprojektiven Räumen. [Holomorphic mappings between quasiprojective spaces] 90d:32044
 Masser, D. W. (with Wüstholz, G.) Another note on Baker's theorem. 90k:11091
 Välinen, K. Application of Hermite-Mahler polynomials to the approximation of the values of p -adic exponential function. 90m:11105
 Waldschmidt, M. Fonctions θ et nombres transcendants. [Theta functions and transcendental numbers] 90a:11086
 — *see also* Fifty years of polynomials, 90j:00018
 Wüstholz, G. *see* Masser, D. W., 90k:11091
 Yger, Alain *see* Berenstein, Carlos A., 90d:32007

- Yuan, Jin An approximation theorem for p -adic algebraic numbers. (Chinese. English summary) 90d:11086
 Zhu, Yao Chen Arithmetical properties of gap series with algebraic coefficients. 90a:11083

Items listed otherwise than by author

- Cinquante ans de polynômes ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Conference:

- Fifty Years of Polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018
 Fifty years of polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018
 Lecture Notes in Mathematics ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018
 Paris ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

11J82 Measures of irrationality and of transcendence

- André, Yves ★ G -functions and geometry. 90k:11087
 Derevyanko, N. I. Approximation of the values of some functions. (Russian) 90c:11105
 Galochkin, A. I. On effective bounds for certain linear forms. 90b:11069
 Kuukasjärvi, M. (with Matala-Aho, T.; Välinen, K.) On irrationality measures of certain p -adic numbers. 90k:11088
 Matala-Aho, T. *see* Kuukasjärvi, M.; et al., 90k:11088
 Nestorenko, Yu. V. Effective estimates of a measure of algebraic independence of values of E -functions. 90c:11045
 Ramachandra, K. An easy transcendence measure for e . 90f:11056
 Rhin, Georges Approximants de Padé et mesures effectives d'irrationalité. [Padé approximants and effective measures of irrationality] 90k:11089
 Välinen, K. *see* Kuukasjärvi, M.; et al., 90k:11088
 Zeren, Bedriye M. Über die Natur der Transzendenz der Werte einer Art verallgemeinerter Lückenreihen mit algebraischen Koeffizienten für algebraische Argumente. (English and Turkish summaries) [On the nature of transcendence of the values of a type of generalized lacunary series with algebraic coefficients for algebraic arguments] 90a:11079
 Zhu, Yao Chen Transcendence and algebraic independence of certain p -adic numbers. I. (Chinese) 90f:11058

Items with secondary classifications in 11J82

- Aby, Mohammed Mesure d'approximation simultanée. (English summary) [Simultaneous approximation measure] 90g:11090
 Amoroso, Francesco Some remarks about algebraic independence measures in high dimension. (French summary) 90b:11076
 Diaz, Guy Mesure d'indépendance algébrique de α^b, α^{b^2} . [Algebraic independence measures for α^b and α^{b^2}] 90g:11094
 Hirata-Kohno, Noriko Approximation de périodes de fonctions méromorphes. [Approximation of periods of meromorphic functions] 90m:11108
 Mignotte, Maurice (with Waldschmidt, M.) Linear forms in two logarithms and Schneider's method. II. 90k:11092
 Philippou, P. (with Waldschmidt, M.) Formes linéaires de logarithmes elliptiques et mesures de transcendence. [Linear forms in elliptic logarithms and transcendence measures] 90m:11110
 Sorokin, V. N. Linear independence of logarithms of some rational numbers. 90m:11107
 Waldschmidt, M. *see* Mignotte, Maurice, 90k:11092 and Philippou, P., 90m:11110

11J83 Metric theory

- Bernik, V. I. (with Markovich, N. I.) Diophantine approximations with coefficients that depend on a parameter. (Russian. English summary) 90a:11080
 Dodson, M. M. (with Rynne, B. P.; Vickers, J. A. G.) Metric Diophantine approximation and Hausdorff dimension on manifolds. 90b:11070
 Dombrovskii, I. R. Simultaneous approximations of real numbers by algebraic numbers of bounded degree. (Russian. English summary) 90b:11059
 Markovich, N. I. *see* Bernik, V. I., 90a:11080
 Nguyễn Xuân Việt Diophantine approximations on manifolds that are defined by polynomials of several variables. (Russian. English summary) 90j:11068
 Rynne, B. P. *see* Dodson, M. M.; et al., 90b:11070
 Vickers, J. A. G. *see* Dodson, M. M.; et al., 90b:11070

Items with secondary classifications in 11J83

- Bernik, V. I. (with Mel'nikuk, Yu. V.) ★ Диофантовы приближения и размерность Хаусдорфа. (Russian) [Diophantine approximations and Hausdorff dimension] 90b:11077
 — Applications of measure theory and Hausdorff dimension to the theory of Diophantine approximation. 90b:11078
 Mel'nikuk, Yu. V. *see* Bernik, V. I., 90b:11077
 Strauch, Otto Some applications of Franel-Kluyver's integral. II. (Russian summary) 90j:11079
 Xu, Guang Shan Diophantine approximation and transcendental number theory. 90d:11062

11J85 Algebraic independence; Gelfond's method

- Allouche, Jean-Paul (with Mendes France, Michel; van der Poorten, A. J.) Indépendance algébrique de certaines séries formelles. (English summary) [Algebraic independence of certain formal power series] 90b:11060
 Amoroso, Francesco Some remarks about algebraic independence measures in high dimension. (French summary) 90b:11076
 Becker-Landeck, Paul-George (with Nishioka, Kumiko) Measures for the algebraic independence of the values of Mahler type functions. 90a:11081
 Beukers, F. (with Brownawell, W. Dale; Heckman, Gert) Siegel normality. 90c:11106

- Bézivin, J.-P. (with Robba, P.) A new p -adic method for proving irrationality and transcendence results. 90m:1107
- Brownawell, W. Dale Applications of Cayley-Chow forms. 90h:11061
- see also Beukers, F.; et al., 90m:11066
- Bundschuh, Peter A criterion for algebraic independence with some applications. 90f:11057
- Diaz, Guy Mesure d'indépendance algébrique de α^p, α^{p^2} . [Algebraic independence measures for α^p and α^{p^2}] 90m:11094
- Grands degrés de transcendance pour des familles d'exponentielles. (English summary) [Large transcendence degrees for families of exponentials] 90m:11108
- Feldman, N. I. A note on Gelfond's method. 90m:11046
- Heckman, Gert see Beukers, F.; et al., 90m:11066
- Just, Bettina Integer relations among algebraic numbers. 90m:11109
- Lasser, N. I. Algebraic independence of the values of some classes of hypergeometric E -functions. 90m:11109
- Laxton, J. H. (with van der Poorten, A. J.) Arithmetic properties of automata: regular sequences. 90m:11082
- Mendes France, Michel see Allouche, Jean-Paul; et al., 90h:11060
- Nishioka, Kumiko Evertse theorem in algebraic independence. 90h:11062
- see also Becker-Landeck, Paul-George, 90m:11081
- Philibert, Georges Une mesure d'indépendance algébrique. [A measure of algebraic independence] 90m:11071
- van der Poorten, A. J. see Laxton, J. H., 90m:11082 and Allouche, Jean-Paul; et al., 90h:11060
- Robba, P. see Bézivin, J.-P., 90m:11107
- Salikhov, V. Kh. Formal solutions of linear differential equations and their application in the theory of transcendental numbers. (Russian) 90m:11110
- Shidlovskii, A. B. On the problem of algebraic independence of values of E -functions at algebraic points. 90m:11111
- Tabbs, Robert The algebraic independence of three numbers: Schneider's method. 90j:11069
- A note on some elementary measures of algebraic independence. 90m:11077
- Väänänen, K. (with Xu, Guang Shan) On the arithmetic properties of the values of G -functions. 90j:11095
- Xu, Guang Shan see Väänänen, K., 90j:11095
- Zhu, Yao Chen Arithmetical properties of gap series with algebraic coefficients. 90m:11083
- Transcendence and algebraic independence of certain p -adic numbers. II. (Chinese) 90f:11059
- A note on certain fields of finite transcendence type. 90k:11090
- A generalization in several variables of a transcendence criterion of Gelfond. II. 90h:11063
- Criteria of algebraic independence of complex numbers over a field of finite transcendence type. 90j:11096
- On a criterion of algebraic independence of numbers. 90h:11064
- Items with secondary classifications in 11J85
- Beukers, F. Some new results on algebraic independence of E -functions. 90a:11078
- Brindza, B. Some new applications of an inequality of Mason. 90a:11039
- Bundschuh, Peter (with Waldschmidt, M.) Irrationality results for theta functions by Gelfond-Schneider's method. 90m:11106
- Diaz, Guy Généralisation d'un résultat de W. D. Brownawell-M. Waldschmidt. (English summary) [Generalization of a result of W. D. Brownawell and M. Waldschmidt] 90f:11074
- Galoichin, A. I. On effective bounds for certain linear forms. 90h:11049
- Katsurada, Masanori Linear independence measures for values of Heine series. 90f:11053
- Nesterenko, Yu. V. Effective estimates of a measure of algebraic independence of values of E -functions. 90c:11045
- Salikhov, V. Kh. On reducibility and linear reducibility of linear differential equations. (Russian) 90m:12010
- Irreducibility of a class of hypergeometric equations. (Russian) 90m:12011
- Waldschmidt, M. see Bundschuh, Peter, 90m:11106
- Xu, Guang Shan Diophantine approximation and transcendental number theory. 90d:11082

11J86 Linear forms in logarithms; Baker's method

- Masser, D. W. (with Wüstholz, G.) Another note on Baker's theorem. 90k:11091
- Mignotte, Maurice (with Waldschmidt, M.) Linear forms in two logarithms and Schneider's method. II. 90k:11092
- Philippon, P. (with Waldschmidt, M.) Lower bounds for linear forms in logarithms. 90b:11072
- Roy, Damien Sous-groupes minimaux de \mathbb{R}^n . (English summary) [Minimal subgroups of \mathbb{R}^n] 90a:11084
- Waldschmidt, M. Sur les méthodes de Schneider, Gelfond et Baker. [On the methods of Schneider, Gelfond and Baker] 90j:11097
- see also Philippon, P., 90b:11072 and Mignotte, Maurice, 90k:11092
- Wüstholz, G. A new approach to Baker's theorem on linear forms in logarithms. III. 90m:11085
- see also Masser, D. W., 90k:11091
- Yu, Kun Rui Linear forms in logarithms in the p -adic case. 90j:11098
- Linear forms in p -adic logarithms. 90k:11093
- Items with secondary classifications in 11J86
- Balasubramanian, Ramachandran (with Shorey, T. N.; Waldschmidt, M.) On the maximal length of two sequences of consecutive integers with the same prime divisors. 90b:11078
- Brindza, B. Some new applications of an inequality of Mason. 90a:11039
- Philippon, P. (with Waldschmidt, M.) Formes linéaires de logarithmes simultanées sur les groupes algébriques commutatifs. [Simultaneous linear forms of logarithms on commutative algebraic groups] 90m:11113
- (with Waldschmidt, M.) Formes linéaires de logarithmes elliptiques et mesures de transcendance. [Linear forms in elliptic logarithms and transcendence measures] 90m:11110

- Shorey, T. N. see Balasubramanian, Ramachandran; et al., 90b:11078
- Waldschmidt, M. see Philippon, P., 90m:11113; Balasubramanian, Ramachandran; et al., 90b:11078 and Philippon, P., 90m:11110
- Yu, Jing Transcendence and Drinfeld modules: several variables. 90j:11056

11J87 Applications to Diophantine equations and other arithmetic problems

- Balasubramanian, Ramachandran (with Shorey, T. N.; Waldschmidt, M.) On the maximal length of two sequences of consecutive integers with the same prime divisors. 90b:11078
- Shorey, T. N. see Balasubramanian, Ramachandran; et al., 90b:11078
- Waldschmidt, M. see Balasubramanian, Ramachandran; et al., 90b:11078
- Zaidenberg, M. G. Transcendental solutions of Diophantine equations. 90m:11112
- Items with secondary classifications in 11J87
- André, Yves \star G -functions and geometry. 90k:11087
- Belotserkovskii, Yu. F. Effective analysis of a new class of Diophantine equations. (Russian. English summary) 90d:11038
- Berenstein, Carlos A. (with Yger, Alain) Calcul de résidus et problèmes de division. (English summary) [Residue calculus and division problems] 90d:32007
- Bombieri, E. (with Vaaler, J. D.) Polynomials with low height and prescribed vanishing. 90k:11133
- Brindza, B. On the equation $f(x) = y^m$ over finitely generated domains. 90k:11031
- Emsalem, Michel Transcendance et Z_p -extensions. [Transcendence and Z_p -extensions] 90a:11125
- Gross, Fred (with Osgood, Charles F.) Diophantine approximation to the value distribution theory of meromorphic functions. 90m:30037
- Luckhardt, H. Herbrand-Analysen zweier Beweise des Satzes von Roth: Polynomiale Anzahlschranken. (English summary) [Herbrand analyses of two proofs of Roth's theorem: polynomial bounds on cardinality] 90k:03056
- Masser, D. W. (with Wüstholz, G.) Some effective estimates for elliptic curves. 90j:11046
- McCleary, John How not to prove Fermat's last theorem. 90h:11026
- Mignotte, Maurice Sur les entiers qui s'écrivent simplement en différentes bases. [The integers that can be written simply in different bases] 90j:11015
- (with Waldschmidt, M.) Linear forms in two logarithms and Schneider's method. II. 90k:11092
- Osgood, Charles F. see Gross, Fred, 90m:30037
- Vaaler, J. D. see Bombieri, E., 90k:11133
- Vojta, Paul Dyson's lemma for products of two curves of arbitrary genus. 90k:11075
- Mordell's conjecture over function fields. 90k:11076
- Waldschmidt, M. see Mignotte, Maurice, 90k:11092
- Wang, Lian Xiang Four terms equations. 90m:11046
- Wüstholz, G. see Masser, D. W., 90j:11046
- Yger, Alain see Berenstein, Carlos A., 90d:32007
- Zhong, Chui Xiang Fermat's last theorem: a note about Abel's conjecture. 90c:11019

11J89 Transcendence theory of elliptic and abelian functions and algebraic groups

- Laurent, Michel Une nouvelle démonstration du théorème d'isogénie, d'après D. V. et G. V. Chudnovsky. [A new proof of the isogeny theorem, following D. V. and G. V. Chudnovsky] 90k:11094
- Philippon, P. (with Waldschmidt, M.) Formes linéaires de logarithmes simultanées sur les groupes algébriques commutatifs. [Simultaneous linear forms of logarithms on commutative algebraic groups] 90m:11113
- (with Waldschmidt, M.) Formes linéaires de logarithmes elliptiques et mesures de transcendance. [Linear forms in elliptic logarithms and transcendence measures] 90m:11110
- Umemura, Hiroshi On classical numbers. (Japanese) 90g:11099
- Waldschmidt, M. see Philippon, P., 90m:11113 and 90m:11110
- Wüstholz, G. Algebraische Punkte auf analytischen Untergruppen algebraischer Gruppen. [Algebraic points on analytic subgroups of algebraic groups] 90g:11101

Items with secondary classifications in 11J89

- Beukers, F. (with Brownawell, W. Dale; Heckman, Gert) Siegel normality. 90m:11106
- Brownawell, W. Dale see Beukers, F.; et al., 90m:11106
- Heckman, Gert see Beukers, F.; et al., 90m:11106
- Philibert, Georges Une mesure d'indépendance algébrique. [A measure of algebraic independence] 90b:11071
- Tabbs, Robert The algebraic independence of three numbers: Schneider's method. 90j:11069
- A note on some elementary measures of algebraic independence. 90m:11077
- Waldschmidt, M. On the transcendence methods of Gelfond and Schneider in several variables. 90d:11089
- Wüstholz, G. Multiplicity estimates on group varieties. 90g:11100
- Xu, Guang Shan Diophantine approximation and transcendental number theory. 90d:11082

11J91 Transcendence theory of other special functions

- Flach, Matthias Periods and special values of the hypergeometric series. 90h:11065
- Lin, Wei Qiang A discussion on the transcendence of periodic functions. (Chinese) 90m:11111
- Waldschmidt, M. Fonctions thêta et nombres transcendants. [Theta functions and transcendental numbers] 90a:11086

Items with secondary classifications in 11J91

- Beukers, F. Some new results on algebraic independence of E -functions. 90a:11078

Diaz, Guy Généralisation d'un résultat de W. D. Brownawell-M. Waldschmidt. (English summary) [Generalization of a result of W. D. Brownawell and M. Waldschmidt] 90d:11074

Shidlovskii, A. B. On the problem of algebraic independence of values of E -functions at algebraic points. 90e:11111

Väänänen, K. (with Xu, Guang Shan) On the arithmetic properties of the values of G -functions. 90g:11095

Xu, Guang Shan Diophantine approximation and transcendental number theory. 90d:11082

— see also Väänänen, K., 90g:11095

Zhu, Yao Chen Transcendence and algebraic independence of certain p -adic numbers. I. (Chinese) 90f:11058

— Transcendence and algebraic independence of certain p -adic numbers. II. (Chinese) 90f:11059

11J99 None of the above, but in this section

Ahmed, S. I. see Al-Rashed, Abdallah M., 90m:11112

Al-Rashed, Abdallah M. (with Ahmed, S. I.) A generalization of the number x . 90m:11112

Ramsey, Robert Notes on van der Poorten's proof of the Hadamard quotient theorem. I, II. 90d:11090

Items with secondary classifications in 11J99

Aparicio Bernardo, Emiliano On the asymptotic structure of the polynomials of minimal Diophantine deviation from zero. 90b:41010

Bézivin, J.-P. Solutions rationnelles de certaines équations fonctionnelles. [Rational solutions of some functional equations] 90c:11015

— Quotients de fonctions entières et quotients de Hadamard de séries formelles. (English summary) [Quotients of entire functions and Hadamard quotients of formal power series] 90k:30002

Coster, Matthijs Congruence properties of coefficients of certain algebraic power series. 90b:11016

D'Souza, Harry Trapping a real number between adjacent rationals. 90i:11072

Masser, D. W. Specializations of finitely generated subgroups of abelian varieties. 90d:11073

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

Delange, Hubert Probabilistic number theory. 90d:11091

11K06 General theory of distribution modulo 1 [see also 11J71]

Berend, Daniel Irrational dilations of approximate multiplicative semigroups of integers. 90i:11079

Bümlinger, M. (with Drmota, M.; Tichy, R. F.) Metrische Sätze der C -Gleichverteilung auf der Sphäre. (English summary) [Metric theorems on the C -uniform distribution on the sphere] 90k:11095

Brown, Gavin (with Keane, Michael S.; Moran, William; Pearce, C. E. M.) An inequality, with applications to Cantor measures and normal numbers. 90b:11073

Chardin, Marc Lien entre deux résultats sur la répartition modulo 1 de la suite des multiples d'un nombre réel. (English summary) [Link between two results about the distribution modulo 1 of the multiples of a real number] 90f:11060

Drmota, M. Gleichmäßig gleichverteilte und schwach gleichmäßig gleichverteilte Funktionen modulo 1. (English summary) [Uniformly distributed and weakly uniformly distributed functions modulo 1] 90j:11012

— Such- und Prüfprozesse mit praktischen Gitterpunkten. [Search and test processes with practical lattice points] 90m:11113

— see also Bümlinger, M.; et al., 90k:11095

Flaajolet, Philippe (with Kirschenhofer, P.; Tichy, R. F.) Deviations from uniformity in random strings. 90a:11087

Goldstern, Martin Vollständige Gleichverteilung in diskreten Räumen. (English summary) [Complete uniform distribution in discrete spaces] 90k:11096

Kano, Takeshi A fundamental problem in the theory of uniform distribution of sequences. 90m:11114

Keane, Michael S. see Brown, Gavin; et al., 90b:11073

Kirschenhofer, P. see Flaajolet, Philippe; et al., 90a:11087

Larcher, G. On the distribution of the multiples of an s -tuple of real numbers. 90h:11066

Loxton, J. H. Spectral studies of automata. 90e:11114

Moran, William see Brown, Gavin; et al., 90b:11073

Paštelka, M. On distribution functions of sequences. (Russian and Slovak summaries) 90c:11115

— Solution of one problem from the theory of uniform distribution. 90c:11047

Pearce, C. E. M. see Brown, Gavin; et al., 90b:11073

Peres, Yuval Application of Banach limits to the study of sets of integers. 90a:11088

Prinout, Petko D. On the inequalities of Erdős-Turán and Berry-Esseen. I. 90a:11089

— On the Erdős-Turán inequality on uniform distribution. I. 90c:11048a

— On the Erdős-Turán inequality on uniform distribution. II. 90c:11048b

— On the inequalities of Erdős-Turán and Berry-Esseen. II. 90g:11103

Tichy, R. F. Statistische Resultate über computergerechte Darstellungen von Zahlen. [Statistical results on computer-adjusted representations of numbers] 90a:11090

— A criterion for the uniform distribution of sequences in compact metric spaces. 90c:11049

— (with Winkler, Reinhard) Gleichverteilung in hyperkomplexen Systemen. [Uniform distribution in hypercomplex systems] 90j:11070

— see also Flaajolet, Philippe; et al., 90a:11087 and Bümlinger, M.; et al., 90k:11095

Turnwald, Gerhard Einige Bemerkungen zur diskreten Gleichverteilung. (English summary) [Some remarks on discrete uniform distribution] 90g:11104

Winkler, Reinhard see Tichy, R. F., 90j:11070

Items with secondary classifications in 11K06

Coffey, John Uniformly distributed D -sequences. 90k:28031

Drmota, M. (with Tichy, R. F.) A note on Riess means and well distribution. 90f:11063b

Dufner, G. Eine Bemerkung zur Franelsumme von Folgen. [A comment on the Franel sum of sequences] 90m:11118

Flajolet, Philippe (with Kirschenhofer, P.; Tichy, R. F.) Discrepancy of sequences in discrete spaces. 90g:11105

Fleischer, Wilhelm Ein Diskrepanzbegriff für kompakte Räume. (English summary) [A concept of discrepancy for compact spaces] (see 90b:11003)

Goldstern, Martin (with Tichy, R. F.; Turnwald, Gerhard) Distribution of the ratios of the terms of a linear recurrence. 90d:11025

Hellekalek, P. (with Larcher, G.) On functions with bounded remainder. (French summary) 90i:28024

Kirschenhofer, P. see Flaajolet, Philippe; et al., 90a:11105

Larcher, G. see Hellekalek, P., 90i:28024

Lyons, Russell Mixing and asymptotic distribution modulo 1. 90d:28019

Mauduit, Christian Caractérisation des ensembles normaux substitutifs. [Characterization of normal sets associated with substitution] 90b:11075

Obata, Nobuaki Density of natural numbers and the Lévy group. 90e:11027

Schafte, Peter On mantissa distributions in computing and Benford's law. (German and Russian summaries) 90g:60016

— On well-distribution with respect to weighted means. 90c:11050

— Note on the discrepancy of well-distributed sequences. 90f:11063a

— Note on the concept of m -dependence. 90m:60036

Tichy, R. F. see Goldstern, Martin; et al., 90d:11025; Drmota, M., 90f:11063b and Flaajolet, Philippe; et al., 90g:11105

Turnwald, Gerhard Weak uniform distribution of second-order linear recurring sequences. 90k:11018

— see also Goldstern, Martin; et al., 90d:11025

Wang, Yuan¹ Number theoretic method in numerical analysis. 90d:65044

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Allouche, Jean-Paul Somme des chiffres et fonction zeta de Hurwitz. [Sum of digits and the Hurwitz zeta function] (see 90a:11003)

Bertrand-Mathis, Anne (with Volkmann, Bodo) On (e, k) -normal words in connecting dynamical systems. 90m:11115

Borel, J.-P. Suites de longueur minimale associées à un ensemble normal donné. (English summary) [Sequences of minimal length associated with a given normal set] 90b:11074

— Parties d'ensembles B -normaux. (English summary) [Subsets of B -normal sets] 90a:11091

— Ensembles normaux et suites bornées. [Normal sets and bounded sequences] 90f:11061

Boyd, David W. Salem numbers of degree four have periodic expansions. 90j:11071

Goh, William M. Y. Dynamical representation of real numbers and its universality. 90j:11072

Knopfmacher, Arnold (with Knopfmacher, John) Representations for real numbers via k th powers of integers. 90m:11116

Knopfmacher, John see Knopfmacher, Arnold, 90m:11116

Mauduit, Christian Caractérisation des ensembles normaux substitutifs. [Characterization of normal sets associated with substitution] 90b:11075

Pashkin, L. N. A metric variant of the Cassels-Schmidt theorem. 90k:11067

Schütz, Peter (with Volkmann, Bodo) On numbers with given digit distributions. 90b:11068

— see also Volkmann, Bodo, 90a:11003

Volkmann, Bodo (with Schütz, Peter) Sur des nombres normaux définis par un polynôme.

[Normal numbers defined by a polynomial] (see 90a:11003)

— see also Schütz, Peter, 90b:11068 and Bertrand-Mathis, Anne, 90m:11115

Items with secondary classifications in 11K16

Borwein, P. B. (with Loring, Terry A.) Some questions of Erdős and Graham on numbers of the form $\sum g_n/2^n$. 90i:11020

Brown, Gavin (with Keane, Michael S.; Moran, William; Pearce, C. E. M.) An inequality, with applications to Cantor measures and normal numbers. 90b:11073

Keane, Michael S. see Brown, Gavin; et al., 90b:11073

Kirschenhofer, P. (with Prodinger, H.; Tichy, R. F.) Über die Ziffernsumme natürlicher Zahlen und verwandte Probleme. (English summary) [On the sum of digits of natural numbers and related problems] 90k:11010

Loring, Terry A. see Borwein, P. B., 90i:11020

Loxton, J. H. (with van der Poorten, A. J.) Arithmetic properties of automata: regular sequences. 90a:11082

McDaniel, Wayne L. Difference of the digital sums of an integer base b and its prime factors. 90c:11021

Mendès France, Michel A Diophantine problem. 90j:11064

Moran, William see Brown, Gavin; et al., 90b:11073

Pearce, C. E. M. see Brown, Gavin; et al., 90b:11073

van der Poorten, A. J. see Loxton, J. H., 90a:11082

Prodinger, H. see Kirschenhofer, P.; et al., 90k:11010

Shapiro, A. P. The distribution of the first digits of a geometric progression. (Russian) 90j:11073

Tichy, R. F. see Kirschenhofer, P.; et al., 90k:11010

Yu, Hong Bing A note on a theorem of Mahler. (Chinese) 90c:11044

11K26 PV-numbers

Items with secondary classifications in 11K26

Bertin, M.-J. (with Pathiaux-Delefosse, Martine) ★ Conjecture de Lehmer et petits nombres de Salem. (French) [Lehmer's conjecture and small Salem numbers] 90f:11090

Boyd, David W. Salem numbers of degree four have periodic expansions. 90j:11071

Mauduit, Christian Caractérisation des ensembles normaux substitutifs. [Characterization of normal sets associated with substitution] 90b:11075

- Pathiaux-Delefosse, Martine *see* Bertin, M.-J., 90f:11090
 Rauzy, G. Rotations sur les groupes, nombres algébriques, et substitutions. [Rotations on groups, algebraic numbers and permutations] 90g:11017

11K31 Other special sequences

- Nair, Radhakrishnan On LeVeque's theorem about the uniform distribution (mod 1) of $(a_j \cos a_j x)_{j=1}^{\infty}$. 90d:11092
 Wen, Zhi Xiong (with Wen, Zhi Ying) Remarques sur la suite engendrée par des substitutions composées. (English summary) [Remarks on the sequence generated by composed substitutions] 90d:11093
 Wen, Zhi Ying *see* Wen, Zhi Xiong, 90d:11093
 Werdli, Máté Pointwise ergodic theorem along the prime numbers. 90f:11062
- Items with secondary classifications in 11K31
- Chaux, Henri (with Faure, Henri) Discrepance et diaphonie des suites de van der Corput généralisées. (English summary) [Discrepancy and diaphony of generalized van der Corput sequences] 90m:11117
 Cooper, Curtis N. *see* Kennedy, Robert E., 90m:11024
 Daróczy, Zoltán (with Kátai, Imre; Szabó, Tamás Zoltán) On completely additive functions related to interval-filling sequences. 90k:11014
 Faure, Henri *see* Chaux, Henri, 90m:11117
 Goldstein, Sheldon (with Kelly, K.; Lebowitz, J. L.; Szász, Domokos) Asymmetric random walk on a random Thue-Morse lattice. 90k:82058
 Golomb, S. W. Distributions of periods and frequencies of runs in random binary sequences. 90i:60008
 Jacobson, Eliot Almost uniform distribution of the Fibonacci sequence. 90h:11015
 Janžura, Martin Test for submodel in Gibbs-Markov binary random sequence. 90h:62194
 Kátai, Imre *see* Daróczy, Zoltán; et al., 90k:11014
 Kelly, K. *see* Goldstein, Sheldon; et al., 90k:82058
 Kennedy, Robert E. (with Cooper, Curtis N.) A generalization of a result of C. Ramus and its application to digital sums. 90m:11024
 Lebowitz, J. L. *see* Goldstein, Sheldon; et al., 90k:82058
 de Luca, Aldo (with Varricchio, Stefano) Some combinatorial properties of the Thue-Morse sequence and a problem in semigroups. 90k:68090
 Restivo, Antonio Coding sequences with constraints. 90m:94031
 Schatte, Peter On mantissa distributions in computing and Benford's law. (German and Russian summaries) 90g:60016
 Stein, Alan H. Exponential sums of digit counting functions. 90m:11025
 Strauch, Otto Some applications of Franel's integral. I. (Russian and Slovak summaries) 90d:11028
 Szabó, Tamás Zoltán *see* Daróczy, Zoltán; et al., 90k:11014
 Szász, Domokos *see* Goldstein, Sheldon; et al., 90k:82058
 Varricchio, Stefano *see* de Luca, Aldo, 90k:68090

11K36 Well-distributed sequences and other variations

- Drnotta, M. (with Tichy, R. F.) A note on Riess means and well distribution. 90f:11063b
 Mendes France, Michel (with Shallit, Jeffrey) Wire bending. 90a:11092
 Schatte, Peter On well-distribution with respect to weighted means. 90f:11050
 — Note on the discrepancy of well-distributed sequences. 90f:11063a
 — On measures of uniformly distributed sequences and Benford's law. 90k:11097
 Shallit, Jeffrey *see* Mendes France, Michel, 90a:11092
 Shapiro, A. P. The distribution of the first digits of a geometric progression. (Russian) 90j:11073
 Tichy, R. F. *see* Drnotta, M., 90f:11063b

Items with secondary classifications in 11K36

- Adolphson, Alan On the distribution of angles of Kloosterman sums. 90k:11109
 Blümlinger, M. (with Drnotta, M.; Tichy, R. F.) Asymptotic distribution of functions on compact homogeneous spaces. 90b:43009
 Das, Gokulananda (with Patel, B. K.) Lacunary distribution of sequences. 90d:40009
 Drnotta, M. (with Tichy, R. F.) Distribution properties of continuous curves. 90j:11081
 — *see also* Blümlinger, M.; et al., 90b:43009
 Friedlander, John B. Fractional parts of sequences. 90m:11104
 Fujii, Akio Gram's law for the zeta zeros and the eigenvalues of Gaussian unitary ensembles. 90a:11104
 Patel, B. K. *see* Das, Gokulananda, 90d:40009
 Pratsvityi, N. V. Singular distributions of Cantor and Salem types. (Russian) 90b:28010
 Sia, Man Keung From binary sequences to combinatorial designs. (Chinese summary) 90m:05025
 Tichy, R. F. *see* Blümlinger, M.; et al., 90b:43009 and Drnotta, M., 90j:11081

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

- Atanassov, E. Y. Note on the discrepancy of the van der Corput generalized sequences. 90h:11069
 — *see also* Proinov, Petko D., 90c:11052
 Beck, József (with Chen, W. W. L.) Irregularities of point distribution relative to convex polygons. 90c:11116
 — On a problem of W. M. Schmidt concerning one-sided irregularities of point distributions. 90h:11070
 Borel, J.-P. Suites et mesures auto-similaires. [Self-similar sequences and measures] 90j:11074
 — Self-similar measures and sequences. 90f:11064
 Chaux, Henri (with Faure, Henri) Discrepance et diaphonie des suites de van der Corput généralisées. (English summary) [Discrepancy and diaphony of generalized van der Corput sequences] 90m:11117
 Chen, W. W. L. *see* Beck, József, 90c:11116

- Drnotta, M. Untere Schranken für die C-Discrepanz. [Lower bounds for the C-discrepancy] 90a:11093
 Dufner, G. Eine Bemerkung zur Franelsumme von Folgen. [A comment on the Franel sum of sequences] 90m:11118
 Faure, Henri Discrepance quadratique de suites infinies en dimension un. [Quadratic discrepancy of infinite sequences in dimension one] 90f:11075
 — *see also* Chaux, Henri, 90m:11117
 Flajolet, Philippe (with Kirschenhofer, P.; Tichy, R. F.) Discrepancy of sequences in discrete spaces. 90g:11105
 Fleischer, Wilhelm Ein Diskrepanzbegriff für kompakte Räume. (English summary) [A concept of discrepancy for compact spaces] (see 90b:11003)
 Gillo, Angelo An application of the concept of pseudodensity to the first significant digit problem in statistical data. (Italian. English summary) 90k:11098
 Goldstein, Martin Eine Klasse vollständig gleichverteilter Folgen. (English summary) [A class of completely uniformly distributed sequences] 90c:11117
 Hodges, John H. An improved result on irregularities in distribution of sequences of integers. (Italian summary) 90c:11118
 Horbowicz, J. (with Niederreiter, H.) Weighted exponential sums and discrepancy. 90k:11099
 — *see also* Niederreiter, H., 90c:11051
 Kirschenhofer, P. (with Tichy, R. F.) Gleichverteilung in diskreten Räumen. (English summary) [Uniform distribution in discrete spaces] 90j:11076
 — *see also* Flajolet, Philippe; et al., 90g:11105
 Lapeyre, Bernard (with Pagès, Gilles) Familles de suites à discrepancy faible obtenues par itération de transformations de $[0, 1]$. (English summary) [Families of sequences with low discrepancy obtained by iteration of transforms of $[0, 1]$] 90b:11076
 Larcher, G. On the distribution of s -dimensional Kronecker-sequences. 90f:11065
 — (with Tichy, R. F.) Some number-theoretical properties of generalized sum-of-digit functions. 90k:11080
 Lesert, V. Gleichverteilte Folgen und Folgen, für die fast alle Teilfolgen gleichverteilt sind. (English summary) [Uniformly distributed sequences, and sequences almost all of whose subsequences are uniformly distributed] 90k:11100
 Lovász, László (with Vesztegombi, K.) Extremal problems for discrepancy. 90f:11066
 Mignotte, Maurice Sur un théorème de M. Langevin. [On a theorem of M. Langevin] 90j:11077
 Niederreiter, H. (with Horbowicz, J.) Optimal bounds for exponential sums in terms of discrepancy. 90c:11051
 — *see also* Horbowicz, J., 90k:11099
 Pagès, Gilles *see* Lapeyre, Bernard, 90b:11076
 Proinov, Petko D. (with Atanassov, E. Y.) On the distribution of the van der Corput generalized sequences. (French summary) 90c:11052
 Schellengeier, J. Über die Discrepanz der Folgen $(n\alpha)$. [On the discrepancy of the sequences $(n\alpha)$] 90j:11078
 Strauch, Otto Some applications of Franel-Kluyver's integral. II. (Russian summary) 90j:11079
 Tichy, R. F. *see* Flajolet, Philippe; et al., 90g:11105; Larcher, G., 90c:11080 and Kirschenhofer, P., 90j:11076
 Vesztegombi, K. *see* Lovász, László, 90f:11066
 Wagner, Gerold Sala On the product of distances to a point set on a sphere. 90j:11080
 Winkler, Reinhard Two results in uniform distribution theory. (German summary) 90a:11094

Items with secondary classifications in 11K38

- Aubry, S. (with Godrèche, C.; Luck, J. M.) Scaling properties of a structure intermediate between quasiperiodic and random. 90a:58154
 Flajolet, Philippe (with Kirschenhofer, P.; Tichy, R. F.) Deviations from uniformity in random strings. 90a:11087
 Fujii, Akio Gram's law for the zeta zeros and the eigenvalues of Gaussian unitary ensembles. 90a:11104
 Godrèche, C. *see* Aubry, S.; et al., 90a:58154
 Hellekalek, P. (with Larcher, G.) On Weyl sums and skew products over irrational rotations. 90m:28019
 Kirschenhofer, P. *see* Flajolet, Philippe; et al., 90a:11087
 Kiss, P. (with Tichy, R. F.) A discrepancy problem with applications to linear recurrences. I. 90j:11060a
 — (with Tichy, R. F.) A discrepancy problem with applications to linear recurrences. II. 90j:11060b
 Larcher, G. *see* Hellekalek, P., 90m:28019
 Léocat, C. A direct simulation Monte Carlo scheme and uniformly distributed sequences for solving the Boltzmann equation. (German summary) 90d:65018
 Linhart, Johann Approximation of a ball by zonotopes using uniform distribution on the sphere. 90m:52013
 Loxton, J. H. Spectral studies of automata. 90c:11114
 Luck, J. M. *see* Aubry, S.; et al., 90a:58154
 Nair, Radhakrishnan On LeVeque's theorem about the uniform distribution (mod 1) of $(a_j \cos a_j x)_{j=1}^{\infty}$. 90d:11092
 Niederreiter, H. The serial test for digital k -step pseudorandom numbers. 90g:65011
 — (with Sloan, I. H.) Lattice rules for multiple integration and discrepancy. 90f:65036
 Sloan, I. H. *see* Niederreiter, H., 90f:65036
 Tichy, R. F. (with Winkler, Reinhard) Gleichverteilung in hyperkomplexen Systemen. [Uniform distribution in hypercomplex systems] 90j:11070
 — *see also* Flajolet, Philippe; et al., 90a:11087; Kiss, P., 90j:11060a and 90j:11060b
 Wagner, Gerold Sala On an imbalance problem in the theory of point distribution. 90j:42034
 Wikramaratna, R. S. ACORN—a new method for generating sequences of uniformly distributed pseudo-random numbers. 90j:11082
 Winkler, Reinhard *see* Tichy, R. F., 90j:11070

11K41 Continuous, p -adic and abstract analogues

- Drneta, M.** (with Tichy, R. F.) Distribution properties of continuous curves. 90b:11081
Tichy, R. F. see **Drneta, M.**, 90b:11081

Items with secondary classifications in 11K41

- Dumont, Jean-Marie** Formules sommatoires et systèmes de numération liés aux substitutions. [Summation formulas and numbering systems associated with substitutions] 90m:11023
 — (with Thomas, Alain) Systèmes de numération et fonctions fractales relatifs aux substitutions. (English summary) [Numbering systems and fractal functions relative to substitutions] 90m:11022
Pratsevity, N. V. Singular distributions of Cantor and Salem types. (Russian) 90b:28010
Thomas, Alain see **Dumont, Jean-Marie**, 90m:11022

11K45 Pseudo-random numbers; Monte Carlo methods

- Edwards, K. J.** Perfect pseudorandom numbers. 90b:11071
Niederreiter, H. Remarks on nonlinear congruential pseudorandom numbers. 90b:11119
Wikramaratna, R. S. ACORN—a new method for generating sequences of uniformly distributed pseudo-random numbers. 90b:11082
- Items with secondary classifications in 11K45
- Afferbach, Lothar** (with Weibäcker, Rainer) The exact determination of rectangle discrepancy for linear congruential pseudorandom numbers. 90b:65009
Chassaling, Philippe An optimal random number generator on Z_p . 90b:65007
Demidenko, S. N. see **Yarmolik, V. N.**, 90b:65011
Denzer, V. (with Ecker, A.) Optimal multipliers for linear congruential pseudo-random number generators with prime moduli. 90b:65010
Ecker, A. see **Denzer, V.**, 90b:65010
Eichenauer-Herrmann, Jürgen (with Niederreiter, H.) On Marsaglia's lattice test for pseudorandom numbers. 90b:65011
 — (with Grothe, Holger) A remark on long-range correlations in multiplicative congruential pseudo random number generators. 90b:65017
Grothe, Holger see **Eichenauer-Herrmann, Jürgen**, 90b:65017
Niederreiter, H. The serial test for digital k -step pseudorandom numbers. 90b:65011
 — The serial test for congruential pseudorandom numbers generated by inversions. 90b:65008
 — see also **Eichenauer-Herrmann, Jürgen**, 90b:65011
Rotondi, Renata Programming and statistical control of p -adic pseudorandom sequences. (Italian) 90j:65011
Schnorr, C.-P. On the construction of random number generators and random function generators. 90k:94024
Temirgaliev, N. see **Voronin, S. M.**, 90b:65020
Voronin, S. M. (with Temirgaliev, N.) Quadrature formulas that are connected with divisors of the field of Gaussian numbers. 90b:65020
Wang, Zhi Tang Weyl sequences of pseudorandom numbers. (Chinese) 90m:04003
Weibäcker, Rainer see **Afferbach, Lothar**, 90b:65009
Yarmolik, V. N. (with Demidenko, S. N.) ★ Generation and application of pseudorandom sequences for random testing. 90b:65011
Zhou, Zhi Cheng An experimental study of the pseudorandomness of m -sequences. (Chinese. English summary) 90b:65010

11K50 Metric theory of continued fractions [see also 11A55, 11J70]

- Bosma, Wieb** Approximation by mediant. 90m:11119
Fluck, Wolfgang Ein verallgemeinerter Gauss-Kuzmin-Operator. [A generalized Gauss-Kuzmin operator] 90a:11095
 — Numerische Betrachtungen zum Gauss-Kuzmin-Operator. [Numerical considerations on the Gauss-Kuzmin operator] 90a:11096
Ito, Shunji Algorithms with mediant convergents and their metrical theory. 90k:11101
Kraaikamp, C. Statistic and ergodic properties of Minkowski's diagonal continued fraction. 90m:11120
Nakada, Hitoshi On metric Diophantine approximation of complex numbers, complex continued fractions. 90b:11067

Items with secondary classifications in 11K50

- Lakhtakia, Akhlesh** (with Messier, R.; Varadan, V. V.; Varadan, V. K.) Incommensurate numbers, continued fractions, and fractal immitances. 90a:11075
Messier, R. see **Lakhtakia, Akhlesh**; et al., 90a:11075
van Ravenstein, Tony The three gap theorem (Steinhaus conjecture). 90a:11076
Varadan, V. K. see **Lakhtakia, Akhlesh**; et al., 90a:11075
Varadan, V. V. see **Lakhtakia, Akhlesh**; et al., 90a:11075

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99]

- Berend, Daniel** Density mod 1 of multiplicative semigroups in topological fields. 90d:11094
Drobot, Vladimir (with Turner, John Christopher) Hausdorff dimension and Perron-Frobenius theory. 90a:11097
Prodinger, H. Über längste 1-Teilfolgen in 0-1-Folgen. [On longest 1-subsequences in 0-1-sequences] 90g:11106
Turner, John Christopher see **Drobot, Vladimir**, 90a:11097

Items with secondary classifications in 11K55

- Bernik, V. I.** (with Mel'nikuk, Yu. V.) ★ Диафантов приближения и размерность Хаусдорфа. (Russian) [Diophantine approximations and Hausdorff dimension] 90b:11077

- Applications of measure theory and Hausdorff dimension to the theory of Diophantine approximation. 90b:11078
Bertoin, Jean Sur la mesure d'occupation d'une classe de fonctions self-affines. (English summary) [The occupation measure of a class of self-affine functions] 90c:26023
Bertrand-Mathis, Anne (with Volkmann, Bodo) On (s, k) -normal words in connecting dynamical systems. 90m:11115
Blanchard, F. β -expansions and symbolic dynamics. 90j:54039
Dani, S. G. On orbits of endomorphisms of tori and the Schmidt game. 90b:58145
Dekking, F. M. Critical phenomena for random Cantor sets. 90b:60009
Eigen, Stanley J. (with Hajian, Arshag) Sequences of integers and ergodic transformations. 90m:28016
Hajian, Arshag see **Eigen, Stanley J.**, 90m:28016
Harrison, Jenny C. Embedded continued fractals and their Hausdorff dimension. 90c:58083
Kono, N. On self-affine functions. II. 90c:26024
Mel'nikuk, Yu. V. see **Bernik, V. I.**, 90b:11077
Peresvereva, N. A. A set-theoretic characteristic of sets in \mathbb{R}^2 that admit a given order of approximation by algebraic numbers. (Russian. English summary) 90k:11102
Pesnaud, Catherine Entropie topologique des systèmes spécifiés. (English summary) [Topological entropy of systems with the specification property] 90j:54040
Volkmann, Bodo see **Bertrand-Mathis, Anne**, 90m:11115
Weakley, William D. On the number of C^∞ -words of each length. 90g:05012
Wen, Zhi Xiong (with Wen, Zhi Ying) Remarques sur la suite engendrée par des substitutions composées. (English summary) [Remarks on the sequence generated by composed substitutions] 90d:11093
Wen, Zhi Ying see **Wen, Zhi Xiong**, 90d:11093

11K60 Diophantine approximation [see also 11Jxx]

- Bernik, V. I.** (with Mel'nikuk, Yu. V.) ★ Диафантов приближения и размерность Хаусдорфа. (Russian) [Diophantine approximations and Hausdorff dimension] 90b:11077
 — Applications of measure theory and Hausdorff dimension to the theory of Diophantine approximation. 90b:11078
Harman, Glyn Metrical theorems on fractional parts of real sequences. 90j:11083
Mel'nikuk, Yu. V. see **Bernik, V. I.**, 90b:11077
Peresvereva, N. A. A set-theoretic characteristic of sets in \mathbb{R}^2 that admit a given order of approximation by algebraic numbers. (Russian. English summary) 90k:11102
- Items with secondary classifications in 11K60
- Bernik, V. I.** Diophantine approximations on differentiable manifolds. (Russian. English summary) 90k:11081
Dani, S. G. (with Margulis, G. A.) Values of quadratic forms at primitive integral points. (French summary) 90d:11080
Dodson, M. M. (with Rynne, B. P.; Vickers, J. A. G.) Metric Diophantine approximation and Hausdorff dimension on manifolds. 90b:11070
Iosifescu, Marius On the random Fermat's equation. (Not in MR)
Ito, Shunji Algorithms with mediant convergents and their metrical theory. 90k:11101
Margulis, G. A. see **Dani, S. G.**, 90d:11080
Mashanov, V. I. Metric properties of a class of polynomials in several variables. (Russian. English summary) 90k:11082
Rynne, B. P. see **Dodson, M. M.**; et al., 90b:11070
Strauch, Otto Some applications of Franel's integral. I. (Russian and Slovak summaries) 90d:11028
Vickers, J. A. G. see **Dodson, M. M.**; et al., 90b:11070

11K65 Arithmetic functions [see also 11Nxx]

- Bareikis, G.** Probabilities of moderate deviations for multiplicative functions. 90k:11103
 — Moderate deviations for arithmetic functions. The local case. (Russian. English and Lithuanian summaries) 90b:11081
de la Cal, Jesús On the three series theorem in number theory. 90a:11098
Čekanavičius, Vydas see **Šiaulytė, Jonas V.**, 90c:11054 and 90m:11121
Elliott, P. D. T. A. The distribution of additive functions defined on short intervals. 90g:11107
 — The value distribution of differences of additive arithmetic functions. 90b:11108
Erlikov, V. V. An estimate for the deviation from stable limit laws for a class of additive functions. 90b:11079
 — An estimate for deviation from the normal distribution law for an additive function. 90d:11095
Hildebrand, Adolf An Erdős-Wintner theorem for differences of additive functions. 90b:11099
Indlekofer, Karl-Heinz Über Verallgemeinerungen der Turán-Kubilius Ungleichung. [On generalizations of the Turán-Kubilius inequality] 90b:11072
Kryžius, Zigmasdas A functional limit theorem for some arithmetic processes. (Russian. English and Lithuanian summaries) 90k:11104
Orlov, I. N. Integral laws for the distribution of additive functions, and algebraic number fields. 90c:11053
Palffy, P. P. (with Szalay, M.) Further probabilistic results on the symmetric p -groups. 90g:11109
Rosochowicz, E. On weak uniform distribution of sequences of integers. 90k:11105
Razsa, Imre Z. On sets of weak uniform distribution. 90k:11106
Šiaulytė, Jonas V. (with Čekanavičius, Vydas) Approximation of distributions of integer-valued additive functions by discrete charges. I. 90c:11054
 — (with Čekanavičius, Vydas) Approximation of distributions of integer-valued additive functions by discrete charges. II. (Russian. English and Lithuanian summaries) 90m:11121
Stakėnas, V. Additive functions and rational approximations. 90a:11100
 — Additive functions and simultaneous rational approximations. (Russian. English and Lithuanian summaries) 90k:11082

Szalay, M. *see* Pálffy, P. P., 90h:11109

Items with secondary classifications in 11K65

- Alladi, K. Probabilistic number theory and Brun's sieve. 90c:11140
 — The distribution of additive functions in special sets of integers. 90c:11105
 Balas, Guttu Jogesh (with Erdős, Paul) A note on the distribution function of additive arithmetical functions in short intervals. 90c:11106
 Erdős, Paul *see* Balas, Guttu Jogesh, 90c:11106
 Fredman, Michael L. (with Saffari, Bahman; Smith, Brent) Polynômes réciproques: conjecture d'Erdős en norme L^4 , taille des autocorrélations et inexistence des codes de Barker. (English summary) [Self-inversive polynomials: L^4 -norm Erdős conjecture, size of autocorrelations and nonexistence of Barker codes] 90c:42004
 Hildebrand, Adolf Additive and multiplicative functions on shifted primes. 90c:11107
 Indlekofer, Karl-Heinz (with Kátai, Imre) Generalized moments of additive functions. 90c:11097
 Kátai, Imre *see* Indlekofer, Karl-Heinz, 90c:11097
 Krytius, Zigmantas Letter to the editors: "The distribution of additive arithmetic functions with shifted arguments" [Litovsk. Mat. Sb. 17 (1977), no. 4, 127–138; MR 57 #16241]. 90c:11118
 Kunth, Peter Über eine arithmetische Charakterisierung der multiplikativen, fast-geraden Funktionen. (English summary) [On an arithmetic characterization of multiplicative, almost-even functions] 90c:11099
 Saffari, Bahman *see* Fredman, Michael L.; et al., 90c:42004
 Smith, Brent *see* Fredman, Michael L.; et al., 90c:42004
 Yakymiv, A. L. On the number of A -permutations. 90d:60017

11K99 None of the above, but in this section

Items with secondary classifications in 11K99

- Allouche, Jean-Paul (with Mendès France, Michel; Tenenbaum, Gérard) Entropy: an inequality. 90c:26033
 Bourgain, J. Pointwise ergodic theorems for arithmetic sets. 90c:28030
 Brick, S. Enumeration of factors in the Thue-Morse word. 90c:20071
 Dumont, Jean-Marie Formules sommatoires et systèmes de numération liés aux substitutions. [Summation formulas and numbering systems associated with substitutions] 90c:11023
 — (with Thomas, Alain) Systèmes de numération et fonctions fractales relatifs aux substitutions. (English summary) [Numbering systems and fractal functions relative to substitutions] 90c:11022
 Furstenberg, Hillel (with Katznelson, Yitzhak) A density version of the Hales-Jewett theorem for $k = 3$. 90c:05003
 — *see also* Bourgain, J., 90c:28030
 Katznelson, Yitzhak *see* Furstenberg, Hillel, 90c:05003 and Bourgain, J., 90c:28030
 Liu, Quan Sheng On the growth of some random hyper-Dirichlet series. 90c:30033
 Mendès France, Michel *see* Allouche, Jean-Paul; et al., 90c:26033
 Mirzakhmedov, S. M. A condition of Salem type for rearranged multiplicative systems. (Russian. Tajiki summary) 90c:42049
 (Ornstein, Donald S.) *see* Bourgain, J., 90c:28030
 Osipov, V. F. ★ Анализ Бора-Фурье на локально компактных коммутативных группах. (Russian) [Bohr-Fourier analysis on locally compact commutative groups] 90c:43001
 Steutel, F. W. (with Thiemann, J. G. F.) On the independence of integer and fractional parts. 90c:62041
 Takahashi, Shigeru An asymptotic behavior of $\{f(n_k t)\}$. 90c:26004
 Tenenbaum, Gérard *see* Allouche, Jean-Paul; et al., 90c:26033
 Thiemann, J. G. F. *see* Steutel, F. W., 90c:62041
 Thomas, Alain *see* Dumont, Jean-Marie, 90c:11022
 Velodin, N. A. Distribution mod p^N of polynomial coefficients. (Russian) 90c:11022
 Wright, Edward Maitland Number theory and other reminiscences of Viscount Cherwell. 90c:01096
 Zinterhof, Peter Über die schnelle Lösung von hochdimensionalen Fredholm-Gleichungen vom Faltungstyp mit zahlentheoretischen Methoden. [On the fast solution of higher-dimensional Fredholm equations of convolution type by means of number-theoretic methods] 90c:65164

11Lxx Exponential sums and character sums

- Chen, Jing Run (with Pan, Cheng Biao) Analytic number theory in China. I. 90c:11060
 Korobov, N. M. ★ Тригонометрические суммы и их приложения. (Russian) [Trigonometric sums and their applications] 90f:11068
 Pan, Cheng Biao *see* Chen, Jing Run, 90c:11060

11L03 Trigonometric and exponential sums, general

- Graham, S. W. (with Kolesnik, G.) One- and two-dimensional exponential sums. 90c:11073
 Hajela, D. Exponential sums and faster than Nyquist signaling. 90c:11122
 Kano, Takeshi On the size of $\sum_{n \leq x} d(n)e(nx)$. 90c:11107
 Kolesnik, G. *see* Graham, S. W., 90c:11073
 Merzlyakov, A. S. Formulas of Liouville type for the sum of squares in quadratic number fields. (Russian) (see 90c:11001)
 Saffari, Bahman (with Smith, Brent) Inexistence de polynômes ultra-plats de Kahane à coefficients ± 1 . Preuve de la conjecture d'Erdős. (English summary) [Nonexistence of ultra-flat Kahane polynomials with coefficients ± 1 . Proof of the Erdős conjecture] 90c:11108
 Smith, Brent *see* Saffari, Bahman, 90c:11108

Items with secondary classifications in 11L03

- Bourgain, J. Pointwise ergodic theorems for arithmetic sets. 90c:28030
 (Furstenberg, Hillel) *see* Bourgain, J., 90c:28030

Hanumanthachari, J. *see* Reddy, P. V., 90h:11007

- Henkel, Malte (with Lacki, Jan) Integrable chiral Z_n quantum chains and a new class of trigonometric sums. 90h:82078
 Horbowicz, J. (with Niederreiter, H.) Weighted exponential sums and discrepancy. 90c:11099
 — *see also* Niederreiter, H., 90c:11051
 Jutila, M. On exponential sums involving the Ramanujan function. 90c:11057
 (Katznelson, Yitzhak) *see* Bourgain, J., 90c:28030
 Knizhnerman, L. A. (with Sokolinski, V. Z.) Trigonometric sums and sums of Legendre symbols with large and small absolute values. (Russian) 90c:11110
 Lacki, Jan *see* Henkel, Malte, 90h:82078
 Niederreiter, H. (with Horbowicz, J.) Optimal bounds for exponential sums in terms of discrepancy. 90c:11051
 — *see also* Horbowicz, J., 90c:11099
 (Ornstein, Donald S.) *see* Bourgain, J., 90c:28030
 Reddy, P. V. (with Hanumanthachari, J.) Structure of a class of integers and its applications to certain totients and allied Ramanujan sums. 90h:11007
 Sárközy, A. (with Stewart, C. L.) On exponential sums over prime numbers. 90d:11096
 Shirasaka, Shigeshi On a theorem of S. Chowla. 90d:11088
 Sokolinski, V. Z. *see* Knizhnerman, L. A., 90c:11110
 Stewart, C. L. *see* Sárközy, A., 90d:11096

11L05 Gauss and Kloosterman sums; generalizations

- Adolphson, Alan On the distribution of angles of Kloosterman sums. 90c:11109
 Burgess, D. A. Partial Gaussian sums. 90c:11055
 — Partial Gaussian sums. II. 90c:11056
 Cosgrove, C. *see* Glasser, M. L., 90h:11074
 Evans, Ronald (with Root, William A.) Conjectures for Selberg character sums. 90c:11120
 Glasser, M. L. (with Cosgrove, C.) A Gaussian-geometric finite sum formula. 90h:11074
 Ito, Hiroshi On a product related to the cubic Gauss sum. 90c:11080
 Kahn, Bruno Sommes de Gauss attachées aux caractères quadratiques de petit conducteur. [Gauss sums attached to quadratic characters of small conductor] 90f:11069
 Root, William A. *see* Evans, Ronald, 90c:11120

Items with secondary classifications in 11L05

- Adolphson, Alan (with Sperber, Steven) On the degree of the L -function associated with an exponential sum. 90c:11134
 Coleman, Robert F. Computing stable reductions. 90h:11050
 Friedberg, Solomon Poincaré series, Kloosterman sums, trace formulas, and automorphic forms for $GL(n)$. 90h:11044
 Friedlander, John B. Fractional parts of sequences. 90m:11104
 Gérardin, Paul (with Li, Wen-Ch'ing Winnie) Degree two monomial representations of local Weil groups. 90m:11192b
 — (with Li, Wen-Ch'ing Winnie) Identities on quadratic Gauss sums. 90m:11192a
 Hardy, Kenneth (with Williams, Kenneth S.) Evaluation of the infinite series $\sum_{n=1}^{\infty} \left(\frac{1}{2}\right)_n \left(\frac{3}{2}\right)_n^{-1} 4^{-n-1}$. 90c:11114
 Kubota, Tomio On a functional equation involving Kloosterman sums. 90c:11060
 Kuznetsov, N. V. The sums of the Kloosterman sums. 90c:11048
 Lachaud, Gilles Distribution of the weights of the dual of the Melas code. 90m:94044
 Li, Wen-Ch'ing Winnie On quadratic Gauss sums over local fields. 90c:11157
 — *see also* Gérardin, Paul, 90m:11192a and 90m:11192b
 Oskolkov, K. I. I. M. Vinogradov series and integrals and their applications. (Russian) 90c:11112
 Sperber, Steven *see* Adolphson, Alan, 90c:11134
 Williams, Kenneth S. *see* Hardy, Kenneth, 90c:11114
 Wolfmann, J. The weights of the dual code of the MELAS code over $GF(3)$. 90c:94036
 Ye, Yang Bo Kloosterman integrals and base change for $GL(2)$. 90c:11134

11L10 Jacobsthal and Brewer sums; other complete character sums

Items with secondary classifications in 11L10

- Monzingo, M. G. On the sum $\sum_{a=1}^{p-1} (a/p)a$. 90m:11009
 Suwa, Noriyuki (with Yui, Noriko) Jacobi sums, Fermat motives and the Artin-Tate formula. 90h:11052
 Yui, Noriko *see* Suwa, Noriyuki, 90h:11052

11L15 Weyl sums

- Katz, Nicholas M. An estimate for character sums. 90b:11081
 Watt, N. A problem on semicubical powers. 90c:11083

11L26 Sums over arbitrary intervals

Items with secondary classifications in 11L26

- Huxley, M. N. (with Watt, N.) Exponential sums with a parameter. 90h:11075
 Watt, N. *see* Huxley, M. N., 90h:11075

11L40 Estimates on exponential sums and character sums

- Chalk, John H. H. Quelques remarques sur les congruences polynômes modulo p^n . (English summary) [Some remarks on polynomial congruences modulo p^n] 90c:11101
 Graham, S. W. (with Kolesnik, G.) On the difference between consecutive squarefree integers. 90b:11082
 Harman, Glyn On averages of exponential sums over primes. 90c:11084
 Huxley, M. N. (with Watt, N.) Exponential sums and the Riemann zeta function. 90c:11110

- (with Watt, N.) Exponential sums with a parameter. 90b:11075
- Jutila, M. On exponential sums involving the Ramanujan function. 90c:11057
- Mean value estimates for exponential sums. 90g:11111
- Karatsuba, A. A. Approximation of exponential sums by shorter ones. 90c:11058
- Knizhnerman, L. A. (with Sokolinskii, V. Z.) Trigonometric sums and sums of Legendre symbols with large and small absolute values. (Russian) 90k:11110
- Kolesnik, G. See Graham, S. W., 90b:11082
- Negmatova, G. D. Distribution of values of nonprincipal characters in sparse sequences. (Russian) 90m:11123
- Oskolkov, K. I. I. M. Vinogradov series and integrals and their applications. (Russian) 90g:11112
- Peretti, A. A probabilistic model for evaluating trigonometric and exponential sums. 90c:11121
- Sárközy, A. (with Stewart, C. L.) On exponential sums over prime numbers. 90d:11096
- Sokolinskii, V. Z. See Knizhnerman, L. A., 90k:11110
- Stewart, C. L. See Sárközy, A., 90d:11096
- Tietäväinen, Almo A. Incomplete sums and two applications of Deligne's result. 90b:11083
- Watt, N. Exponential sums and the Riemann zeta-function. II. 90k:11111
- see also Huxley, M. N., 90g:11110 and 90b:11075
- Zhan, Tao On a theorem of Darvenport [Davenport]. (Chinese summary) 90f:11070
- Items with secondary classifications in 11L40
- Balog, A. On a variant of the Piateckij-Šapiro prime number problem. 90c:11062
- Bourgain, J. An approach to pointwise ergodic theorems. 90b:28016
- Burgess, D. A. Partial Gaussian sums. 90c:11055
- Partial Gaussian sums. II. 90c:11056
- Chalk, John H. H. Polynomial congruences over incomplete residue systems, modulo k . 90c:11050
- Friedlander, John B. Primes in arithmetic progressions and related topics. 90b:11086
- Fujii, Akio Zeta zeros and Dirichlet L -functions. 90b:11073
- Zeta zeros and Dirichlet L -functions. II. 90f:11074
- Graham, S. W. (with Pintz, J.) The distribution of r -free numbers. 90f:11079
- Hajela, D. Some remarks on $B_s[g]$ sequences. 90d:11022
- Horn, Günter Abschätzungen zum maximalen k -ten Potenzteiler. I. [Estimates on the maximal k th power divisor. I.] 90b:11094
- Indlekofer, Karl-Heinz (with Kátai, Imre) Exponential sums with multiplicative coefficients. 90j:11093
- Kátai, Imre See Indlekofer, Karl-Heinz, 90j:11093
- Katz, Nicholas M. An estimate for character sums. 90b:11081
- Landreau, Bernard Majorations de fonctions arithmétiques en moyenne sur des ensembles de faible densité. [Mean upper bounds for arithmetical functions on sets of weak density] 90c:11100
- Larcher, G. (with Tichy, R. F.) Some number-theoretical properties of generalized sum-of-digit functions. 90b:11080
- Menzel, Hartmut See Müller, Wolfgang², et al., 90b:11020
- Müller, Wolfgang² (with Nowak, Werner Georg; Menzel, Hartmut) On the number of primitive Pythagorean triangles. (French summary) 90b:11020
- Nowak, Werner Georg On sums of two coprime k th powers. 90k:11123
- see also Müller, Wolfgang², et al., 90b:11020
- Perel'muter, G. I. An estimate for a multidimensional sum with multiplicative character. (Russian) 90k:11163
- Pintz, J. See Graham, S. W., 90f:11079
- Shparlinskii, I. E. Distribution of values of recurrent sequences. 90k:11017
- Solinas, Jerome A. On the joint distribution of digital sums. 90m:11142
- Tichy, R. F. See Larcher, G., 90b:11080

11L99 None of the above, but in this section

Items with secondary classifications in 11L99

- Bykovskii, V. A. Discrete Fourier transform and cyclic convolution on integral lattices. 90c:11077
- Klausch, Dieter On Mellin-Ramanujan expansions. 90k:11132

11Mxx Zeta and L -functions: analytic theory

Items with secondary classifications in 11Mxx

- Apostol, Tom M. ★ Modular functions and Dirichlet series in number theory. 90j:11001
- Pan, Cheng Biao See Pan, Cheng Dong; et al., 90c:11061
- Pan, Cheng Dong (with Pan, Cheng Biao; Xie, Sheng Gang) Analytic number theory in China. II. 90c:11061
- Xie, Sheng Gang See Pan, Cheng Dong; et al., 90c:11061

11M06 $\zeta(s)$ and $L(s, \chi)$

- Balazsbramanian, Ramachandran (with Ramachandra, K.) Some local convexity theorems for the zeta-function-like analytic functions. 90b:11076
- (with Ramachandra, K.) A lemma in complex function theory. I, II. 90m:11124
- Bragg, L. R. Some series whose coefficients involve the values $\zeta(n)$ for n odd. 90g:11113
- Conrey, J. Brian (with Ghosh, Amit; Gonek, S. M.) Mean values of the Riemann zeta-function with application to the distribution of zeros. 90b:11077
- (with Ghosh, Amit) On mean values of the zeta-function. II. 90m:11125
- Dzhabbarov, I. Sh. Mean values of Dirichlet L -functions on short intervals of the critical line and their applications. (Russian. English and Azerbaijani summaries) 90b:11084
- Gérardin, Paul (with Li, Wen-Ch'ing Winnie) Functional equations and periodic sequences. 90j:11084
- Ghosh, Amit See Conrey, J. Brian; et al., 90b:11077 and 90m:11125
- Gonek, S. M. On negative moments of the Riemann zeta-function. 90g:11114
- see also Conrey, J. Brian; et al., 90b:11077

- Hafner, James Lee (with Ivić, Aleksandar) On some mean value results for the Riemann zeta-function. 90k:11112
- (with Ivić, Aleksandar) On the mean-square of the Riemann zeta-function on the critical line. 90d:11097
- Hejhal, Dennis A. On the distribution of $\log |\zeta'(\frac{1}{2} + it)|$. 90j:11085
- Ivić, Aleksandar Large values of some zeta-functions near the line $\sigma = 1$. 90b:11078
- Some recent results on the Riemann zeta-function. 90j:11086
- see also Hafner, James Lee, 90d:11097 and 90k:11112
- Julia, B. On the "statistics" of primes. (French summary) 90g:11115
- Kiseleva, L. V. On the zeros of the function $\zeta(s)$ in a neighborhood of the critical line. (Russian) 90m:11126
- Laurinćikas, Antanas A limit theorem for the Riemann zeta function near the critical line. II. (Russian) 90b:11085
- Lavrik, A. A. Discrete means of derivatives of the Riemann zeta-function on the critical line. (Russian) 90d:11098
- Uniform approximations and zeros in short intervals of the derivatives of the Hardy function. 90i:11086
- Leng, Jing See Wang, Yi Qun, 90g:11119
- Li, Wen-Ch'ing Winnie See Gérardin, Paul, 90j:11084
- Matiyasevich, Ya. V. Connections between some sums with respect to trivial and nontrivial zeros of the Riemann zeta function. 90d:11099
- Matsumoto, Kohji Discrepancy estimates for the value-distribution of the Riemann zeta-function. III. 90a:11102
- Matsuo, Yasushi On the power series coefficients of the Riemann zeta function. 90g:11116
- Montgomery, Hugh L. Selberg's work on the zeta-function. 90d:11100
- Moser, Ján On the integral equilibrium of the function $Z(t)$ in the theory of the Riemann zeta-function. (Russian. English and Slovak summaries) 90c:11059
- Cubic mean value theorems in the theory of the Riemann zeta-function. (Russian. English and Slovak summaries) 90d:11101
- Measures of some sets on the critical line. (Russian. English and Slovak summaries) 90c:11122
- Cubic correlation formulas in the theory of the Riemann zeta-function. (Russian. English and Slovak summaries) 90g:11117
- Motohashi, Yoichi A spectral decomposition of the product of four zeta-values. 90g:11118
- Ramachandra, K. A remark on $\zeta(1 + it)$. 90d:11102
- Titchmarsh series. 90i:11087
- On the frequency of Titchmarsh's phenomenon for $\zeta(s)$. VII. 90k:11113
- (with Volovich, I. V.) A generalization of the Riemann zeta-function. 90b:11079
- see also Balazsbramanian, Ramachandran, 90b:11076 and 90m:11124
- Srivastava, Hari M. A unified presentation of certain classes of series of the Riemann zeta function. 90b:11080
- Stečkin, S. B. Rational inequalities and zeros of the Riemann zeta function. (Russian) 90f:11071
- Stolca, Gheorghe On Riemann's zeta function. 90a:11103
- Volovich, I. V. See Ramachandra, K., 90b:11079
- Wang, Yi Qun (with Leng, Jing) Plana's summation formula and the numerical calculation of the Riemann zeta function $\zeta(2k + 1)$. (Chinese. English summary) 90g:11119
- Zhang, Wen Peng On the divisor problem. 90b:11085

Items with secondary classifications in 11M06

- Balakrishnan, U. A series for $\zeta(s)$. 90g:11123
- Bao, Na Euler's constant and Euler's formula. (Chinese) 90b:11114
- Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] 90m:14016
- Huxley, M. N. (with Watt, N.) Exponential sums and the Riemann zeta function. 90g:11110
- Kuznetsov, N. V. The sums of the Kloosterman sums. 90b:11048
- Maini, Yu. I. Reflections on arithmetical physics. 90m:11195
- Moser, Ján The Riemann zeta-function and the Einstein-Friedmann equations. II. (Russian. English and Slovak summaries) 90c:83020
- Distribution of roots of the equations $Z(t) = 0$, $Z'(t) = 0$ in the theory of the Riemann zeta-function. (Russian. English and Slovak summaries) 90c:11123
- Peretti, A. The irrationality of Euler's constant. II. 90d:11087
- Some new formulae in the theory of the zeta function. III. 90f:11075
- Sándor, József Remarks on Bernoulli polynomials and numbers. 90b:11017
- Satō, Fumihiko The Hamburger theorem for the Epstein zeta functions. 90f:11025
- Tenenbaum, Gérald Sur la distribution conjointe des deux fonctions "nombre de facteurs premiers". [On the joint distribution of the two "number of prime factors" functions] 90a:11106
- Watt, N. Exponential sums and the Riemann zeta-function. II. 90k:11111
- see also Huxley, M. N., 90g:11110
- Weil, André Prehistory of the zeta-function. 90c:01029
- Yoshida, Hiroyuki On calculations of zeros of L -functions related with Ramanujan's discriminant function on the critical line. 90b:11044
- Zhang, Wen-Bin On a number theoretic series. 90b:11092

11M20 Real zeros of $L(s, \chi)$; results on $L(1, \chi)$

- Hardy, Kenneth (with Williams, Kenneth S.) Evaluation of the infinite series $\sum_{n=1}^{\infty} \frac{1}{n^2} \log \left(\frac{n}{n-1} \right)$. 90k:11114
- Kanemitsu, S. On evaluation of certain limits in closed form. 90m:11127
- Williams, Kenneth S. See Hardy, Kenneth, 90k:11114
- Zhang, Wen Peng A formula for quartic mean values of the L -function. (Chinese) 90j:11087

Items with secondary classifications in 11M20

- Fujii, Akio Zeta zeros, Hurwitz zeta functions and $L(1, \chi)$. 90b:11088
- Gross, Benedict H. (with Rosen, Michael I.) Fourier series and the special values of L -functions. 90k:11150

Rosen, Michael I. *see* Gross, Benedict H., 90b:11150

Vignéras, Marie-France Moyennes galoisiennes des valeurs de fonctions L . [Galois means of values of L -functions] 90b:11057

11M26 Nonreal zeros of $\zeta(s)$ and $L(s, \chi)$; Riemann and other hypotheses

Conrey, J. Brian More than two fifths of the zeros of the Riemann zeta function are on the critical line. 90g:11120

Fujii, Akio Gram's law for the zeta zeros and the eigenvalues of Gaussian unitary ensembles. 90a:11104

— Uniform distribution of the zeros of the Riemann zeta function and the mean value theorems of Dirichlet L -functions. 90f:11072

— Zeta zeros and Dirichlet L -functions. 90f:11073

— Zeta zeros and Dirichlet L -functions. II. 90f:11074

— Some generalizations of Chebyshev's conjecture. 90b:11081

— On a theorem of Landau. 90b:11082

Gallagher, P. X. Applications of Guinand's formula. 90m:11128

— A double sum over primes and zeros of the zeta-function. 90g:11121

Gavrilov, N. I. On the problem of the distribution of roots of the zeta function. 90k:11115

Moser, Ján Distribution of roots of the equations $Z(t) = 0$, $Z'(t) = 0$ in the theory of the

Riemann zeta-function. (Russian. English and Slovak summaries) 90e:11123

— Remarks on A. Selberg's theorems on the zeros of the function $\zeta(\frac{1}{2} + it)$. (Russian. English and Slovak summaries) 90g:11122

Peretti, A. Some new formulae in the theory of the zeta function. III. 90f:11075

Vinogradov, A. I. SL_2 techniques and the density conjecture. (Russian) 90e:11124

Items with secondary classifications in 11M26

Berry, Michael Victor Semiclassical formula for the number variance of the Riemann zeros. 90e:11037

Fujii, Akio Diophantine approximation, Kronecker's limit formula and the Riemann hypothesis. 90b:11091

Goldfeld, Dorian Explicit formulae as trace formulae. 90h:11045

Hejhal, Dennis A. On the distribution of $\log[\zeta(\frac{1}{2} + it)]$. 90j:11085

Ivić, Aleksandar Some recent results on the Riemann zeta-function. 90j:11086

Lavrik, A. A. Uniform approximations and zeros in short intervals of the derivatives of the Hardy function. 90b:11086

Volke, Dieter Über das Primzahl-Zwillingsproblem. [On the prime twin problem] 90k:11117

11M35 Hurwitz and Lerch zeta functions

Balakrishnan, U. A series for $\zeta(s)$. 90g:11123

Fujii, Akio Zeta zeros, Hurwitz zeta functions and $L(1, \chi)$. 90b:11088

Ramachandra, K. (with Sankaranarayanan, Ayyadurai) Omega-theorems for the Hurwitz zeta-function. 90b:11089

Sankaranarayanan, Ayyadurai *see* Ramachandra, K., 90b:11089

Items with secondary classifications in 11M35

Acton, Alfred Zeta functions on the nonpositive real axis. 90d:81096

Bragg, L. R. Some series whose coefficients involve the values $\zeta(n)$ for n odd. 90g:11113

Elizalde, E. Multiple zeta functions with arbitrary exponents. 90m:11130

Srivastava, Hari M. A unified presentation of certain classes of series of the Riemann zeta function. 90h:11080

11M41 Other Dirichlet series and zeta functions (For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F70, 11F72.)

Abou-Tair, Ibrahim A. On a certain class of Dirichlet series. 90m:11129

(Bohr, Harald) *see* Kahane, Jean-Pierre, 90k:11116

Calderón, Catalina (with Zárate Azcuna, María José) Inversion formulas for Dirichlet series. 90b:11090

Elizalde, E. Multiple zeta functions with arbitrary exponents. 90m:11130

Everest, G. R. A "Hardy-Littlewood" approach to the S -unit equation. 90g:11124

Fujii, Akio Diophantine approximation, Kronecker's limit formula and the Riemann hypothesis. 90b:11091

Funakura, Takeo On coefficients of Artin L functions as Dirichlet series. 90m:11131

Kahane, Jean-Pierre Around Bohr's thesis. 90k:11116

Kurokawa, Nobushige Special values of Selberg zeta functions. 90b:11086

Lavrik, A. F. Closed triplicity of functional equations of zeta functions. 90m:11132

Lichten, B. Poles of Dirichlet series and D -modules. 90m:11133

Müller, Helmut On generalized zeta-functions. 90m:11134

Sarnak, P. Special values of Selberg's zeta-function. 90b:11125

Wakayama, Masato A formula for the logarithmic derivative of Selberg's zeta function. 90g:11126

Zárate Azcuna, María José *see* Calderón, Catalina, 90b:11090

Items with secondary classifications in 11M41

Acton, Alfred Zeta functions on the nonpositive real axis. 90d:81096

Adolphson, Alan (with Sperber, Steven) On the degree of the L -function associated with an exponential sum. 90b:11134

Akiyama, Shigeaki Selberg trace formula for odd weight. II. 90b:11055

— Selberg trace formula for odd weight. I. 90b:11039

Albouche, Jean-Paul Somme des chiffres et fonction zeta de Hurwitz. [Sum of digits and the Hurwitz zeta function] (see 90a:11083)

Berenstein, Carlos A. (with Struppa, Daniele C.) Dirichlet series and convolution equations. 90d:30008

Bilhan, Mehpare Tchebotarev's density theorem in global fields. (Turkish summary) 90j:11126

Christian, Ulrich Untersuchung Selbigercher Zetafunktionen. [Investigation of Selberg zeta functions] 90g:11065

Cohen, Stephen D. The function field abstract prime number theorem. 90j:11098

Conrey, J. Brian (with Ghosh, Amit; Gonek, S. M.) Simple zeros of the zeta-function of a quadratic number field. II. 90b:11135

Fujii, Akio Some problems of Diophantine approximation and a Kronecker's limit formula. 90f:11084

Gallagher, P. X. Applications of Guinand's formula. 90m:11128

Gérardin, Paul (with Li, Wen-Ch'ing Winnie) Identities on degree two gamma factors. (see 90m:11193)

— (with Li, Wen-Ch'ing Winnie) Twisted Dirichlet series and distributions. 90m:11178

Ghosh, Amit *see* Conrey, J. Brian; et al., 90b:11135

Gonek, S. M. *see* Conrey, J. Brian; et al., 90b:11135

Hafner, James Lee (with Ivić, Aleksandar) On sums of Fourier coefficients of cusp forms. 90k:11055

Hankkanen, Pentti On the Dirichlet series of rational arithmetical functions. 90j:11009

Igusa, Jun-ichi b -functions and p -adic integrals. 90b:11140

Ivić, Aleksandar *see* Hafner, James Lee, 90k:11055

Li, Wen-Ch'ing Winnie *see* Gérardin, Paul, 90m:11178 and (90m:11193)

Lichten, B. Erratum: "Generalized Dirichlet series and b -functions" [Compositio Math. 65 (1988), no. 1, 81–120; MR 89d:32030]. 90k:32050

Mercier, Armet Une représentation pour la série de Dirichlet engendrée par $f(n'M)$, où f est multiplicative. [A representation for the Dirichlet series generated by $f(n'M)$, where f is multiplicative] 90b:11006

Müller, Wolfgang² The mean square of the Dedekind zeta function in quadratic number fields. 90b:11137

Nohmi, Masaya On a convolution on the space of p -adic functions. 90k:11159

Ramachandra, K. (with Volovich, I. V.) A generalization of the Riemann zeta-function. 90b:11079

Satō, Fumihiko The Hamburger theorem for the Epstein zeta functions. 90f:11025

Sperber, Steven *see* Adolphson, Alan, 90b:11134

Struppa, Daniele C. *see* Berenstein, Carlos A., 90d:30008

Vignéras, Marie-France Moyennes galoisiennes des valeurs de fonctions L . [Galois means of values of L -functions] 90b:11057

Volovich, I. V. *see* Ramachandra, K., 90b:11079

Werbinski, Tadeusz An effective version of a theorem of T. Mitsui. 90m:11180

Yoshida, Hiroyuki On a certain distribution on $GL(n)$ and explicit formulas. 90b:11088

11M45 Tauberian theorems

Items with secondary classifications in 11M45

Borwein, David A Tauberian theorem concerning Dirichlet series. 90d:40005

Stadler, Albert Ein Tauber-Satz mit Restglied für die Laplace-Transformation. [A Tauberian theorem with remainder term for the Laplace transformation] 90d:40007

Zhan, Tao Distribution of k -full integers. 90j:11089

11M51 Turán theory [See mainly 11N30]

Items with secondary classifications in 11M51

Balasubramanian, Ramachandran (with Ramachandra, K.) Some local convexity theorems for the zeta-function-like analytic functions. 90b:11076

Ramachandra, K. *see* Balasubramanian, Ramachandran, 90b:11076

11M56 Sieves [See mainly 11N35]

Items with secondary classifications in 11M56

Rohrlich, David E. Nonvanishing of L -functions for $GL(2)$. 90g:11062

11M99 None of the above, but in this section

Items with secondary classifications in 11M99

Borwein, David (with Borwein, J. M.; Shail, R.) Analysis of certain lattice sums. 90j:82038

Borwein, J. M. *see* Borwein, David; et al., 90j:82038

He, Ji Yu *see* Yao, Qi, 90b:11095

Shail, R. *see* Borwein, David; et al., 90j:82038

Yao, Qi (with He, Ji Yu) Applications of a new mean value theorem for the Riemann ζ function. (Chinese. English summary) 90b:11095

11Nxx Multiplicative number theory

Pan, Cheng Biao *see* Pan, Cheng Dong; et al., 90c:11061

Pan, Cheng Dong (with Pan, Cheng Biao; Xie, Sheng Gang) Analytic number theory in China. II. 90c:11061

Xie, Sheng Gang *see* Pan, Cheng Dong; et al., 90c:11061

11N05 Distribution of primes

Balog, A. On a variant of the Pjateckij-Sapiro prime number problem. 90c:11062

Čížek, Jiří Fourier transforms and the P.N.T. error term (abstract). (Russian and Slovak summaries) 90b:11087

Friedlander, John B. (with Granville, Andrew) Limitations to the equi-distribution of primes. I. 90b:11125

Giordano, George Further results on primes in small intervals. 90b:11083

Goldston, D. A. (with Montgomery, Hugh L.) Pair correlation of zeros and primes in short intervals. 90b:11084

- (with Gonek, S. M.) A note on the number of primes in short intervals. 90f:11076
- Gonek, S. M. *see* Goldston, D. A., 90f:11076
- Granville, Andrew *see* Friedlander, John B., 90e:11125
- He, Ji Yu *see* Yao, Qi, 90i:11095
- Hildebrand, Adolf (with Maier, Helmut) Irregularities in the distribution of primes in short intervals. 90f:11077
- Jia, Chao Hua The greatest prime factor of integers in short intervals. II. (Chinese) 90m:11135
- Lao, Wen Zhi Bilinear forms of remainder terms in short intervals. (Chinese) 90i:11092
- Maier, Helmut Small differences between prime numbers. 90e:11126
- *see also* Hildebrand, Adolf, 90f:11077
- Montgomery, Hugh L. *see* Goldston, D. A., 90h:11084
- Perelli, A. Local problems with primes. I. 90i:11093
- Perelli, A. The quantity of Sophie Germain primes less than x . 90e:11127
- Ribenboim, P. ★ The book of prime number records. 90g:11127
- Sampath, A. *see* Srinivasan, B. R., 90i:11094
- Srinivasan, B. R. (with Sampath, A.) An elementary proof of the prime number theorem with a remainder term. 90i:11094
- Sztybel, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. I, II. [On sign changes of some arithmetic functions. I, II] 90a:11105
- Tenenbaum, Gérald La méthode du col en théorie analytique des nombres. [The method of steepest descent in analytic number theory] 90f:11078
- Sur la distribution conjointe des deux fonctions "nombre de facteurs premiers". [On the joint distribution of the two "number of prime factors" functions] 90a:11106
- Wolke, Dieter A property of the sequences of primes. 90b:11088
- Über das Primzahl-Zwillingsproblem. [On the prime twin problem] 90k:11117
- Yao, Qi (with He, Ji Yu) Applications of a new mean value theorem for the Riemann ζ function. (Chinese. English summary) 90i:11095

Items with secondary classifications in 11N05

- Babanazarov, B. *see* Tulyaganova, M. I., 90d:11113
- Cobelli, Cristian (with Văjăitu, Marian; Zaharescu, Alexandru) Graham's conjecture under Riemann hypothesis. 90e:11064
- Daboussi, H. On the prime number theorem for arithmetic progressions. 90h:11085
- Gallagher, P. X. Applications of Guinand's formula. 90m:11128
- Halberstam, H. (with Lou, Shi Tuo; Yao, Qi) A new upper bound in the linear sieve. 90e:11134
- Kaczorowski, Jerzy (with Staś, Włodzimierz) On the number of sign changes in the remainder-term of the prime-ideal theorem. 90b:11123
- Lou, Shi Tuo *see* Halberstam, H.; et al., 90e:11134
- Révész, Sz. Effective oscillation theorems for a general class of real-valued remainder terms. 90e:11131
- Staś, Włodzimierz *see* Kaczorowski, Jerzy, 90b:11123
- Sztybel, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. III. (English summary) [On sign changes of certain arithmetic functions. III] 90m:11181
- Tulyaganova, M. I. (with Babanazarov, B.) Distribution of prime vectors of the integer lattice in small multidimensional cubes. (Russian) 90d:11113
- Văjăitu, Marian *see* Cobelli, Cristian; et al., 90e:11064
- Yao, Qi *see* Halberstam, H.; et al., 90e:11134
- Zaharescu, Alexandru *see* Cobelli, Cristian; et al., 90e:11064

11N13 Primes in progressions [see also 11B25]

- Coleman, M. D. On the equation $b_1 p - b_2 p_2 = b_3$. 90j:11088
- Daboussi, H. On the prime number theorem for arithmetic progressions. 90h:11085
- Friedlander, John B. Primes in arithmetic progressions and related topics. 90h:11086
- On the Brun-Titchmarsh theorem. 90e:11128
- Grosswald, Emil Some number theoretical products. 90e:11129
- Mikawa, Hiroshi Almost-primes in arithmetic progressions and short intervals. 90m:11136
- Zhan, Tao Bombieri's theorem in short intervals. 90g:11128

Items with secondary classifications in 11N13

- Balog, A. On additive representation of integers. 90m:11146
- Hardy, Kenneth (with Williams, Kenneth S.) Evaluation of the infinite series $\sum_{n=1}^{\infty} \left(\frac{1}{n}\right)^2 n^{-1}$. 90k:11114
- Williams, Kenneth S. *see* Hardy, Kenneth, 90k:11114

11N25 Distribution of integers with specified multiplicative constraints

- Balazard, Michel Sur la moyenne des exposants dans la décomposition en facteurs premiers. [On the average of the exponents in prime factorization] 90i:11096
- Chidambaramswamy, J. (with Krishnaiah, P. V.) On integers n with $J_1(n) < J_1(m)$ for $m > n$. 90d:11103
- Erdős, Paul (with Tenenbaum, Gérald) Sur les densités de certaines suites d'entiers. [On the densities of certain sequences of integers] 90h:11087
- Graham, S. W. (with Pintz, J.) The distribution of r -free numbers. 90f:11079
- Kritzel, Ekkehard The distribution of powerful integers of type 4. 90g:11129
- Krishnaiah, P. V. *see* Chidambaramswamy, J., 90d:11103
- Li, Hong Ze The distribution of k th-power-free numbers. (Chinese. English summary) 90h:11088
- Meuzer, Hartmut The distribution of powerful integers of type 4. 90i:11130
- Pintz, J. *see* Graham, S. W., 90f:11079
- Rakhmonov, Z. Kh. The distribution of Hardy-Littlewood numbers in arithmetic progressions. 90g:11130
- Recknagel, Winfried Über k -freie Zahlen als Summe von zwei Quadraten. [On k -free numbers as sum of two squares] 90d:11104
- Salas, Eric Sur le nombre des entiers sans grand facteur premier. [On the number of integers without large prime factors] 90f:11080
- Sárközy, A. Hybrid problems in number theory. 90m:11137

- Tenenbaum, Gérald *see* Erdős, Paul, 90h:11087
- Trifonov, O. On the squarefree problem. 90b:11089
- Zhan, Tao On the error function of the square-full integers. 90i:11097
- Distribution of k -full integers. 90j:11089

Items with secondary classifications in 11N25

- Balasubramanian, Ramachandran (with Shorey, T. N.; Waldschmidt, M.) On the maximal length of two sequences of consecutive integers with the same prime divisors. 90i:11078
- Cohen, G. L. (with Segal, S. L.) A note concerning those n for which $\varphi(n) + 1$ divides n . 90g:11008
- De Koninck, Jean-Marie (with Kátai, Imre; Mercier, Armel) Additive functions and the largest prime factor of integers. 90j:11092
- Erdős, Paul (with Nicolas, Jean-Louis) Grandes valeurs de fonctions liées aux diviseurs premiers consécutifs d'un entier. (English summary) [Large values of functions associated with the consecutive prime divisors of an integer] 90i:11098
- Hall, R. R. (with Tenenbaum, Gérald) ★ Divisors. 90a:11107
- Hausman, Miriam (with Shapiro, Harold N.) On Ramanujan's right triangle conjecture. 90e:11049
- Heath-Brown, D. R. Consecutive almost-primes. 90h:11093
- Kátai, Imre *see* De Koninck, Jean-Marie; et al., 90j:11092
- Mercier, Armel *see* De Koninck, Jean-Marie; et al., 90j:11092
- Nicolas, Jean-Louis *see* Erdős, Paul, 90i:11098
- Plaksin, V. A. The distribution of numbers represented by the sum of two squares. 90a:11113
- Segal, S. L. *see* Cohen, G. L., 90g:11008
- Shapiro, Harold N. *see* Hausman, Miriam, 90e:11049
- Shorey, T. N. *see* Balasubramanian, Ramachandran; et al., 90i:11078
- Tenenbaum, Gérald *see* Hall, R. R., 90a:11107
- Turganalliev, R. T. On the Dirichlet divisor problem in quasiprogessions. (Russian. Kazakh summary) 90d:11108
- Waldschmidt, M. *see* Balasubramanian, Ramachandran; et al., 90i:11078
- Wheeler, Ferrell S. Two difference-equation problems arising in number theory. 90g:11134
- Xuan, Ti Zuo On a problem of Erdős and Ivic. 90f:11085

11N30 Turán theory

- Kaczorowski, Jerzy (with Staś, Włodzimierz) On the number of sign-changes in the remainder-term of the prime-ideal theorem. 90m:11138
- Lorch, Lee (with Russell, Dennis) On some contributions of Halász to the Turán power-sum theory. 90f:11081
- Révész, Sz. Effective oscillation theorems for a general class of real-valued remainder terms. 90e:11131
- Russell, Dennis *see* Lorch, Lee, 90f:11081
- Staś, Włodzimierz *see* Kaczorowski, Jerzy, 90m:11138

Items with secondary classifications in 11N30

- Maxsein, Th. Potenzreihen die einer Wachstumsbedingung genügen und additive Koeffizienten besitzen. [Power series which satisfy a growth condition and have additive coefficients] 90i:30005
- Reddy, A. R. Note on a result of Erdős. 90m:26023

11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

- Fung, Gilbert W. (with Williams, Hugh Cowie) Quadratic polynomials which have a high density of prime values. 90j:11090
- Grosswald, Emil On prime representing polynomials. 90b:11090
- Hinz, Jürgen G. Square-free values of cubic polynomials in algebraic number fields. 90g:11131
- Williams, Hugh Cowie *see* Fung, Gilbert W., 90j:11090

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- Babaev, G. (with Gafurov, N.) Improvement of a result on the sum of powers of divisors of polynomials. (Russian. Tajiki summary) 90e:11137
- Gafurov, N. *see* Babaev, G., 90e:11137
- Klusch, Dieter On Mellin-Ramanujan expansions. 90k:11132

11N35 Sieves

- Bauer, J.-P. Sur la persistance de certaines séquences dans les suites du crible d'Eratosthène. [On the persistence of certain sequences in the sequences of the sieve of Eratosthenes] 90e:11132
- Bombieri, E. Selberg's sieve and its applications. 90g:11132
- Cheer, A. Y. (with Goldston, D. A.) A differential delay equation arising from the sieve of Eratosthenes. 90j:11091
- Diamond, Harold G. (with Halberstam, H.; Richert, H.-E.) Differential difference equations associated with sieves. 90k:11118
- Goldston, D. A. *see* Cheer, A. Y., 90j:11091
- Greaves, George Some remarks on the sieve method. 90d:11105
- Grupp, Frieder On zeros of functions satisfying certain differential-difference equations. 90e:11133
- Halberstam, H. (with Lou, Shi Tuo; Yao, Qi) A new upper bound in the linear sieve. 90e:11134
- *see also* Diamond, Harold G.; et al., 90k:11118
- Lou, Shi Tuo *see* Halberstam, H.; et al., 90e:11134
- Pomykala, Jacek Bilinear form of the remainder term in the Rosser-Iwaniec sieve of dimension $\kappa \in (1/2, 1)$. 90k:11119
- Richert, H.-E. On some functions connected with the sieve. 90e:11135
- *see also* Diamond, Harold G.; et al., 90k:11118

- Selberg, Atle Sifting problems, sifting density, and sieves. 90g:11133
 Tsang, Kai Man Remarks on the sieving limit of the Buchstab-Rosser sieve. 90f:11082
 Wheeler, Ferrell S. Two differential-difference equations arising in number theory. 90g:11134
 Yao, Qi *see* Halberstam, H.; et al., 90e:11134

Items with secondary classifications in 11N35

- Coleman, M. D. On the equation $b_1 p - b_2 p_2 = b_3$. 90j:11088
 Erdős, Paul (with Nicolas, Jean-Louis) Grandes valeurs de fonctions liées aux diviseurs premiers consécutifs d'un entier. (English summary) [Large values of functions associated with the consecutive prime divisors of an integer] 90f:11098
 Friedlander, John B. On the Brun-Titchmarsh theorem. 90e:11128
 Hildebrand, Adolf (with Maier, Helmut) Irregularities in the distribution of primes in short intervals. 90f:11077
 Hinz, Jürgen G. A generalization of Bombieri's prime number theorem to algebraic number fields. 90e:11175
 — Square-free values of cubic polynomials in algebraic number fields. 90g:11131
 Landreau, Bernard Majorations de fonctions arithmétiques en moyenne sur des ensembles de faible densité. [Mean upper bounds for arithmetical functions on sets of weak density] 90e:11100
 Maier, Helmut *see* Hildebrand, Adolf, 90f:11077
 Mikawa, Hiroshi Almost-primes in arithmetic progressions and short intervals. 90m:11136
 Nathanson, Melvyn B. A generalization of the Goldbach-Shnirelman theorem. 90f:11098
 Nicolas, Jean-Louis *see* Erdős, Paul, 90f:11098
 Rohrlich, David E. Nonvanishing of L -functions for $GL(2)$. 90g:11062
 Sárközy, A. (with Stewart, C. L.) On exponential sums over prime numbers. 90d:11096
 Stewart, C. L. *see* Sárközy, A., 90d:11096
 Zhang, Ming Yao Some new applications of the mean value theorem. (Chinese. English summary) 90k:11130
 Zhang, Wen Peng Average-value estimation of a class of number-theoretic functions. (Chinese) 90k:11124

11N37 Asymptotic results on arithmetic functions

- Abbott, H. L. (with Subbarao, M. V.) On the distribution of the sequence $\{nd^*(n)\}$. 90e:11136
 Adhikari, Sukumar Das (with Balasubramanian, Ramachandran; Sankaranarayanan, Ayyadurai) An Q -result related to $r_4(n)$. 90m:11139
 Alladi, K. (with Erdős, Paul; Vaaler, J. D.) Multiplicative functions and small divisors. 90h:11089
 — (with Erdős, Paul; Vaaler, J. D.) Multiplicative functions and small divisors. II. 90h:11090
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 Balasubramanian, Ramachandran (with Ramachandra, K.) On square-free numbers. 90e:11063
 — *see also* Adhikari, Sukumar Das; et al., 90m:11139
 Chidambaraswamy, J. On the average of the generalized totient function over polynomial sequences. 90b:11091
 Cobelli, Cristian (with Văjăitu, Marian; Zaharescu, Alexandru) Graham's conjecture under Riemann hypothesis. 90e:11064
 De Koninck, Jean-Marie (with Mercier, Armel) Les fonctions arithmétiques et le plus grand facteur premier. [Arithmetic functions and the largest prime factor] 90h:11091
 — (with Ivić, Aleksandar) The average prime divisor of an integer in short intervals. 90f:11083
 — (with Kátai, Imre; Mercier, Armel) Additive functions and the largest prime factor of integers. 90j:11092
 Elstrav, I. V. The remainder term in Delange's second theorem. (Russian) 90k:11120
 Elliott, P. D. T. A. Multiplicative functions on arithmetic progressions. II. 90d:11106
 — Multiplicative functions on arithmetic progressions. 90h:11092
 — Multiplicative functions $|g| \leq 1$ and their convolutions: an overview. (see 90j:11004)
 Erdős, Paul (with Nicolas, Jean-Louis) Grandes valeurs de fonctions liées aux diviseurs premiers consécutifs d'un entier. (English summary) [Large values of functions associated with the consecutive prime divisors of an integer] 90f:11098
 — *see also* Alladi, K.; et al., 90h:11089 and 90h:11090
 Fainleib, A. S. *see* Tulyaganova, M. I., 90j:11095
 Fujii, Akio Some problems of Diophantine approximation and a Kronecker's limit formula. 90f:11084
 Gafurov, N. *see* Babaev, G., 90e:11137
 Goryunov, Yu. Yu. Application of a theorem of Vinogradov-Bombieri type to additive problems in number theory. 90e:11065
 Hall, R. R. (with Tenenbaum, Gérard) \star Divisors. 90a:11107
 Heath-Brown, D. R. Consecutive almost-primes. 90h:11093
 Horn, Günter Abschätzungen zum maximalen k -ten Potenzteiler. I. [Estimates on the maximal k th power divisor. I] 90h:11094
 Indlekofer, Karl-Heinz (with Kátai, Imre) Exponential sums with multiplicative coefficients. 90j:11093
 Ivić, Aleksandar *see* De Koninck, Jean-Marie, 90f:11083
 Kátai, Imre Some remarks on arithmetical functions satisfying linear recursions in short intervals. 90h:11095
 — *see also* De Koninck, Jean-Marie; et al., 90j:11092 and Indlekofer, Karl-Heinz, 90j:11093
 Kuntz, Peter Über eine arithmetische Charakterisierung der multiplikativen, fast-geraden Funktionen. (English summary) [On an arithmetic characterization of multiplicative, almost-even functions] 90i:11099
 Landreau, Bernard Majorations de fonctions arithmétiques en moyenne sur des ensembles de faible densité. [Mean upper bounds for arithmetical functions on sets of weak density] 90e:11100
 — A new proof of a theorem of van der Corput. 90d:11107
 Matijević, A. The mean value of multiplicative functions. 90a:11108

- Menzer, Hartmut (with Nowak, Werner Georg) On an asymmetric divisor problem with congruence conditions. 90i:11101
 Mercier, Armel *see* De Koninck, Jean-Marie, 90h:11091 and 90j:11092
 Mearman, Tom On the Dirichlet divisor problem. (Finnish. English summary) 90h:11096
 Montgomery, Hugh L. Fluctuations in the mean of Euler's phi function. 90e:11138
 Nicolas, Jean-Louis *see* Erdős, Paul, 90f:11098
 Nowak, Werner Georg On Euler's ϕ -function in quadratic number fields. 90k:11121
 — On an error term involving the totient function. 90g:11135
 — On a divisor problem in arithmetic progressions. 90k:11122
 — On sums of two coprime k th powers. 90k:11123
 — *see also* Menzer, Hartmut, 90i:11101
 Orazov, M. On the exact order of density of certain numerical sets with restrictions on prime divisors. (Russian. English summary) 9i:11066
 Pétermann, Y.-F. S. Changes of sign of error terms related to Euler's function and to divisor functions. II. 90a:11109
 Ramachandra, K. *see* Balasubramanian, Ramachandran, 90e:11063
 Robin, Guy Permanence de relations de récurrence dans certains développements asymptotiques. [Persistence of recurrence relations in certain asymptotic expansions] 90e:11067
 Sankaranarayanan, Ayyadurai *see* Adhikari, Sukumar Das; et al., 90m:11139
 Sita Ramaiah, V. (with Subbarao, M. V.) Some asymptotic formulae involving powers of arithmetic functions. 90j:11094
 Subbarao, M. V. *see* Abbott, H. L., 90e:11136 and Sita Ramaiah, V., 90j:11094
 Tenenbaum, Gérard *see* Hall, R. R., 90a:11107
 Tolev, D. I. On the division problem in arithmetic progressions. 90e:11068
 — Joint distribution of the fractional parts of different powers of prime numbers. (Russian) 90m:11140
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 Turganaliyev, R. T. On the Dirichlet divisor problem in quasiprogessions. (Russian. Kazakh summary) 90d:11108
 Vaaler, J. D. *see* Alladi, K.; et al., 90h:11089 and 90h:11090
 Văjăitu, Marian *see* Cobelli, Cristian; et al., 90e:11064
 Varbanets, P. D. (with Zarzycki, Piotr) Divisors of the Gaussian integers in an arithmetic progression. 90m:11141
 Xuan, Ti Zuo Estimates of certain sums involving the reciprocals of the largest prime factors of integers. (Chinese. English summary) 90f:11109
 — On a problem of Erdős and Ivić. 90f:11085
 — On sums involving reciprocals of certain large additive functions. 90h:11102
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 — *see also* Varbanets, P. D., 90m:11141
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- Babu, Gutti Jogesh (with Erdős, Paul) A note on the distribution function of additive arithmetical functions in short intervals. 90b:11106
 Balazard, Michel Sur la moyenne des exposants dans la décomposition en facteurs premiers. [On the average of the exponents in prime factorization] 90h:11096
 Bareikis, G. Moderate deviations for arithmetic functions. The local case. (Russian. English and Lithuanian summaries) 90h:11081
 Chidambaraswamy, J. (with Krishnaiah, P. V.) On integers n with $J(n) < J(m)$ for $m > n$. 90d:11103
 Elliott, P. D. T. A. The value distribution of differences of additive arithmetic functions. 90j:11108
 Erdős, Paul (with Tenenbaum, Gérard) Sur les fonctions arithmétiques liées aux diviseurs consécutifs. [On arithmetical functions associated with consecutive divisors] 90h:11103
 — *see also* Babu, Gutti Jogesh, 90b:11106
 Graham, S. W. (with Kolesnik, G.) On the difference between consecutive squarefree integers. 90h:11082
 — (with Pintz, J.) The distribution of r -free numbers. 90f:11079
 Grosswald, Emil Some number theoretical products. 90e:11129
 Hafner, James Lee (with Ivić, Aleksandar) On sums of Fourier coefficients of cusp forms. 90k:11055
 Hall, R. R. The distribution of squarefree numbers. 90b:11009
 Hildebrand, Adolf (with Maier, Helmut) Irregularities in the distribution of primes in short intervals. 90f:11077
 — Multiplicative functions on arithmetic progressions. 90d:11112
 Ivić, Aleksandar *see* Hafner, James Lee, 90k:11055
 Jutila, M. On exponential sums involving the Ramanujan function. 90e:11057
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 Krishnaiah, P. V. *see* Chidambaraswamy, J., 90d:11103
 Maier, Helmut *see* Hildebrand, Adolf, 90f:11077
 Oesterlé, J. Nouvelles approches du "théorème" de Fermat. [New approaches to Fermat's "theorem"] 90h:11038
 Orlov, I. N. Integral laws for the distribution of additive functions, and algebraic number fields. 90e:11053
 Oshaldestin, A. H. (with Shiu, P.) A correlated digital sum problem associated with sums of three squares. 90f:11023
 Pintz, J. *see* Graham, S. W., 90h:11079
 Schinzel, A. (with Wirsing, E.) Multiplicative properties of the partition function. 90h:11102
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 Stadler, Albert Ein Tauber-Satz mit Restglied für die Laplace-Transformation. [A Tauberian theorem with remainder term for the Laplace transformation] 90e:40007
 Stakéas, V. Additive functions and rational approximations. 90a:11100
 — Additive functions and simultaneous rational approximations. (Russian. English and Lithuanian summaries) 90i:11082

- Seydla, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. I, II. [On sign changes of some arithmetic functions. I, II.] 90a:11105
 — Über Vorzeichenwechsel einiger arithmetischer Funktionen. III. (English summary) [On sign changes of certain arithmetic functions. III.] 90m:11181
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11N45 Asymptotic results on counting functions for algebraic and topological structures

- Massias, Jean-Pierre (with Nicolas, Jean-Louis; Robin, Guy) Effective bounds for the maximal order of an element in the symmetric group. 90e:11139
 Nicolas, Jean-Louis *see* Massias, Jean-Pierre; et al., 90e:11139
 Orszag, M. Lower bounds in additive problems with sparse sequences. I. (Russian. English summary) 90d:11110
 — Lower bounds in additive problems with sparse sequences. II. (Russian. English summary) 90k:11125
 Robin, Guy *see* Massias, Jean-Pierre; et al., 90e:11139
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- Fainleib, A. S. *see* Tulyaganova, M. I., 90j:11095
 Jia, Xing De On B_q -sequences. (Chinese. English summary) 90j:11022
 Meir, Amram (with Moon, J. W.) On an asymptotic method in enumeration. 90e:05007a
 — (with Moon, J. W.) Erratum: "On an asymptotic method in enumeration". 90e:05007b
 Moon, J. W. *see* Meir, Amram, 90e:05007a and 90e:05007b
 Tulyaganova, M. I. (with Fainleib, A. S.) Complete integer lattices, and sums of multiplicative functions. (Russian) 90j:11095

11N56 Rate of growth of arithmetic functions

- Erdős, Paul (with Tenenbaum, Gérard) Sur les fonctions arithmétiques liées aux diviseurs consécutifs. [On arithmetic functions associated with consecutive divisors] 90i:11103
 Landreau, Bernard Fonctions multiplicatives et petits diviseurs. (English summary) [Multiplicative functions and small divisors] 90i:11069
 Perelli, A. (with Zannier, Umberto) An extremal property of the Möbius function. 90i:11104
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- Erdős, Paul (with Nicolas, Jean-Louis) Grandes valeurs de fonctions liées aux diviseurs premiers consécutifs d'un entier. (English summary) [Large values of functions associated with the consecutive prime divisors of an integer] 90i:11098
 Landreau, Bernard A new proof of a theorem of van der Corput. 90d:11107
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11N60 Distribution functions associated with additive and positive multiplicative functions

- Alladi, K. Probabilistic number theory and Brun's sieve. 90e:11140
 — The distribution of additive functions in special sets of integers. 90e:11105
 Babu, Gutti Jogesh (with Erdős, Paul) A note on the distribution function of additive arithmetical functions in short intervals. 90i:11106
 Erdős, Paul *see* Babu, Gutti Jogesh, 90i:11106
 Hildebrand, Adolf Additive and multiplicative functions on shifted primes. 90i:11107
 Kryžius, Zigmas Letter to the editors: "The distribution of additive arithmetic functions with shifted arguments" [Litovsk. Mat. Sb. 17 (1977), no. 4, 127–138; MR 57 #16241]. 90i:11110

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- Elliott, P. D. T. A. The distribution of additive functions defined on short intervals. 90j:11107
 Hildebrand, Adolf An Erdős-Wintner theorem for differences of additive functions. 90a:11099
 Mañulis, A. The mean value of multiplicative functions. 90a:11108
 Pálffy, P. P. (with Szalay, M.) Further probabilistic results on the symmetric p -groups. 90j:11109
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11N64 Other results on the distribution of values or the characterization of arithmetic functions

- Balazard, Michel Distribution des valeurs de la fonction $\Omega_g(N)$. [Distribution of values of the function $\Omega_g(N)$] 90b:11093
 Cohen, Joel M. Monotone multiplicative functions. 90f:11086
 Hildebrand, Adolf Multiplicative functions on arithmetic progressions. 90d:11112
 Indlekofer, Karl-Heinz (with Kátai, Imre) On some pairs of multiplicative functions. 90j:11096
 — (with Kátai, Imre) Momente additiver Funktionen auf der Folge $\{p+1\}$. (Russian and Lithuanian summaries) [Moments of additive functions on the sequence $\{p+1\}$] 90e:11141
 — (with Kátai, Imre) Generalized moments of additive functions. 90j:11097
 Kátai, Imre *see* Indlekofer, Karl-Heinz, 90e:11141; 90j:11096 and 90j:11097
 Shao, Pin Zong On the distribution of the values of arithmetic functions. (Chinese. English summary) 90f:11087
 Smít, A. Répartition des valeurs de la fonction d'Euler. [Distribution of the values of the Euler function] 90b:11098
 Solinas, Jerome A. On the joint distribution of digital sums. 90m:11142

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- Elliott, P. D. T. A. The value distribution of differences of additive arithmetic functions. 90j:11108
 Rosochowicz, E. On weak uniform distribution of sequences of integers. 90k:11105
 Ruzsa, Imre Z. On sets of weak uniform distribution. 90k:11106

11N69 Distribution of integers in special residue classes

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- Negmatova, G. D. Distribution of values of nonprincipal characters in sparse sequences. (Russian) 90m:11123

11N80 Generalized primes and integers

- Cohen, Stephen D. The function field abstract prime number theorem. 90j:11098
 Zhang, Wen-Bin Density and O -density of Beurling generalized integers. 90a:11111

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- Di Porto, Adina (with Filippini, Piero) More on the Fibonacci pseudoprimes. 90g:11029
 Filippini, Piero *see* Di Porto, Adina, 90g:11029

11N99 None of the above, but in this section

- Badea, C. Note on a conjecture of P. D. T. A. Elliott. 90b:11094
 Kunth, Peter Der topologische Dualraum des Raums B^q der q -fastgeraden zahlentheoretischen Funktionen ($0 < q < \infty$). [The topological dual space of the space B^q of the q -almost even number-theoretic functions ($0 < q < \infty$)] 90m:11143
 Popov, O. V. On quadratic residues and nonresidues in a sequence of square-free numbers. (Russian) 90m:11144
 Sándor, József Some arithmetic inequalities. 90e:11142

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- Aomoto, K. Correlation functions of the Selberg integral. 90e:33003
 (Delsarte, J.) *see* Maucclair, J.-L., 90k:11008
 Kunth, Peter Einige Ergebnisse aus der nicht-multiplikativen B^q -Theorie. [Some results from nonmultiplicative B^q -theory] 90m:46012
 Logan, B. F. An interference problem for exponentials. 90a:42003
 Maucclair, J.-L. Comments on an article by J. Delsarte: "Essay on the application of the theory of almost periodic functions to arithmetic" [Ann. Sci. École Norm. Sup. (3) 62 (1945), 185–204; MR 8, 316]. (French) 90k:11008
 Maxsels, Th. Potenzreihen die einer Wachstumsbedingung genügen und additive Koeffizienten besitzen. [Power series which satisfy a growth condition and have additive coefficients] 90i:30005
 Ramachandra, K. An application of Borel-Carathéodory theorem. 90j:30034
 Ruzsa, Imre Z. An additive problem for powers of primes. 90g:11139

11Pxx Additive number theory; partitions

Items with secondary classifications in 11Pxx

- Pan, Cheng Biao *see* Pan, Cheng Dong; et al., 90e:11061
 Pan, Cheng Dong (with Pan, Cheng Biao; Xie, Sheng Gang) Analytic number theory in China. II. 90c:11061
 Xie, Sheng Gang *see* Pan, Cheng Dong; et al., 90e:11061

11P05 Waring's problem and variants, sums of different powers

- Arenas, A. An arithmetic problem on the sums of three squares. 90i:11070
 Baker, R. C. Diagonal cubic equations. I. 90k:11126
 Balachandran, Krishnan *see* Thandapani, E.; et al., 90c:11071
 Balasubramanian, G. *see* Thandapani, E.; et al., 90c:11071
 Brüdern, Jörg Sums of four cubes. 90g:11136
 Chen, Jing Run (with Li, Jian Yu²) On the sums of powers of natural numbers. (Chinese summary) 90i:11108
 Delmer, Francine (with Deshouillers, Jean-Marc) On the computation of $g(k)$ in Waring's problem. 90i:11109
 Deshouillers, Jean-Marc *see* Delmer, Francine, 90i:11109
 Heath-Brown, D. R. Weyl's inequality, Hua's inequality, and Waring's problem. 90a:11112
 — Weyl's inequality and Hua's inequality. 90i:11110
 Li, Jian Yu² *see* Chen, Jing Run, 90i:11108
 Mir'kin, D. A. Waring's problem with different polynomials. 90f:11088
 Möller, Wolfgang² (with Nowak, Werner Georg) On a mean-value theorem concerning differences of two k th powers. 90h:11099
 Nguyen Khak Thuan¹ An asymptotic formula for an arithmetic sum. (Russian) 90b:11095
 Nowak, Werner Georg *see* Möller, Wolfgang², 90h:11099
 Plaksin, V. A. The distribution of numbers represented by the sum of two squares. 90i:11113
 (Ramanujan, Srinivasa) *see* Thandapani, E.; et al., 90c:11071
 Thandapani, E. (with Balasubramanian, G.; Balachandran, Krishnan) Problems of perfect squares and cubes in Ramanujan's Notebooks. 90c:11071
 Vaughan, R. C. Recent work on Waring's problem. 90b:11096
 — A new iterative method in Waring's problem. 90c:11072
 — On Waring's problem for cubes. II. 90c:11073
 — A new iterative method in Waring's problem. II. 90c:11074
 Zenkin, A. A. Waring's problem: $g(1, 4) = 21$ for fourth powers of positive integers. 90k:11127

Items with secondary classifications in 11P05

- Fal'iev, R. F. New identities for the product of sums of four squares and their applications. (Russian. Tajiki summary) 90a:11045
 Israllov, M. I. Asymptotic expansion of the number of representations of numbers by a sum of polynomials with a growing number of terms. (Russian) 90k:11131
 Merzlyakov, A. S. Formulas of Liouville type for the sum of squares in quadratic number fields. (Russian) (see 90b:11001)
 Nowak, Werner Georg On sums of two coprime k th powers. 90k:11123
 Piyadina, Zh. V. An analogue of the Hardy-Littlewood equation. 90m:11148
 Watt, N. A problem on semicubical powers. 90i:11083

11P16 Additive questions concerning r -free numbers

- Chubarikov, V. N. An additive problem with power-free numbers. (Russian) 90a:11143

11P21 Lattice points in specified regions

- Abtalyimov, S. B. Sharpening a theorem on lattice points. (Russian) 90k:11128
 Babanazarov, B. see Tulyaganova, M. I., 90d:11113
 Bombieri, E. (with Pila, J.) The number of integral points on arcs and ovals. 90j:11099
 Huxley, M. N. The area within a curve. 90b:11097
 Krätzel, Ekkehard \star Lattice points. 90e:11144
 Martin, T. Ein Gitterpunktproblem in der hyperbolischen Ebene. (English and Russian summaries) [A lattice point problem in the hyperbolic plane] 90i:11111
 Pila, J. see Bombieri, E., 90j:11099
 Trifunov, O. On the number of the lattice points in some two-dimensional domains. 90e:11145
 Tulyaganova, M. I. (with Babanazarov, B.) Distribution of prime vectors of the integer lattice in small multidimensional cubes. (Russian) 90d:11113

Items with secondary classifications in 11P21

- Duke, W. Lattice points on ellipsoids. 90e:11052
 — (with Schulze-Pillot, Rainer) Representation of integers by positive ternary quadratic forms and equidistribution of lattice points on ellipsoids. 90m:11051
 Erdős, Paul (with Gruber, Peter M.; Hammer, Joseph) \star Lattice points. 90g:11081
 Grekos, Georges Sur le nombre de points entiers d'une courbe convexe. (English summary) [On the number of integer points of a convex curve] 90e:11095
 Gruber, Peter M. see Erdős, Paul, et al., 90g:11081
 Hammer, Joseph see Erdős, Paul, et al., 90g:11081
 Lemke, Paul A counterexample to a conjecture of Abbott. 90c:52018
 Menzer, Hartmut see Müller, Wolfgang², et al., 90b:11020
 Metzler, Hans Über die Anzahl der Gitterpunkte auf der Kreislinie mit $x^2 + y^2 = z$. [On the number of lattice points on the circle with $x^2 + y^2 = z$] 90k:11025
 Müller, Wolfgang² (with Nowak, Werner Georg; Menzer, Hartmut) On the number of primitive Pythagorean triangles. (French summary) 90b:11020
 Nowak, Werner Georg On sums of two coprime k th powers. 90k:11123
 — see also Müller, Wolfgang², et al., 90b:11020
 Schulze-Pillot, Rainer see Duke, W., 90m:11051
 Schuster, Reinhard A lattice problem for differential forms in Euclidean spaces. (German and Russian summaries) 90j:11105

11P32 Goldbach-type theorems

- Chen, Jing Run (with Liu, Jian Min²) The exceptional set of Goldbach-numbers. III. (Chinese summary) 90k:11129
 Gritsenko, S. A. The ternary Goldbach problem and the Goldbach-Waring problem with prime numbers lying in intervals of special type. 90a:11114
 Hua, Luo Geng A direct attempt to Goldbach problem. 90d:11114
 Liu, Jian Min² see Chen, Jing Run, 90k:11129
 Liu, Ming Chit (with Tsang, Kai Man) Small prime solutions of linear equations and the exceptional set in Goldbach's problem. 90i:11075
 Nathanson, Melvyn B. A generalization of the Goldbach-Shnirel'man theorem. 90b:11098
 Pintz, J. A note on the exceptional set in Goldbach's problem. 90e:11146
 Sultanova, A. A. The Vinogradov-Goldbach theorem with restrictions on the terms. (Russian) 90j:11100
 Tanaka, Minoru¹ Some results on additive number theory. V. 90m:11145
 Tsang, Kai Man see Liu, Ming Chit, 90i:11075
 Zhang, Ming Yao Some new applications of the mean value theorem. (Chinese. English summary) 90k:11130

Items with secondary classifications in 11P32

- Liu, Ming Chit (with Tsang, Kai Man) On pairs of linear equations in three prime variables and an application to Goldbach's problem. 90g:11137
 Tsang, Kai Man see Liu, Ming Chit, 90g:11137

11P45 Other additive questions involving primes

- Balog, A. On additive representation of integers. 90m:11146
 Liu, Ming Chit (with Tsang, Kai Man) Small prime solutions of linear equations. 90k:11112
 — (with Tsang, Kai Man) On pairs of linear equations in three prime variables and an application to Goldbach's problem. 90g:11137
 Sárközy, A. (with Stewart, C. L.) On divisors of sums of integers. IV. 90i:11076
 Stewart, C. L. see Sárközy, A., 90i:11076
 Tsang, Kai Man see Liu, Ming Chit, 90g:11137 and 90k:11112
 Items with secondary classifications in 11P45
 Rakhmonov, Z. Kh. The distribution of Hardy-Littlewood numbers in arithmetic progressions. 90g:11130
 Sárközy, A. Hybrid problems in number theory. 90m:11137

- Srinivasan, Seshadri A Diophantine inequality with prime variables. 90a:11042
 Zhan, Tao On a theorem of Darvenport [Davenport]. (Chinese summary) 90f:11070

11P55 Applications of the Hardy-Littlewood method [see also 11D85]

- Israllov, M. I. Asymptotic expansion of the number of representations of numbers by a sum of polynomials with a growing number of terms. (Russian) 90k:11131
 Lomadze, G. A. Representation of numbers by sums of the quadratic forms $x_1^2 + x_1x_2 + x_2^2$. (Russian) 90m:11147
 Patterson, S. J. A heuristic principle and applications to Gauss sums. 90g:11138
 Piyadina, Zh. V. An analogue of the Hardy-Littlewood equation. 90m:11148
 Ruzsa, Imre Z. An additive problem for powers of primes. 90g:11139

Items with secondary classifications in 11P55

- Arenas, A. Quantitative aspects of the representations of integers by quadratic forms. 90k:11137
 Bourgain, J. An approach to pointwise ergodic theorems. 90b:28016
 Brüdern, Jörg Sums of four cubes. 90g:11136
 Cook, Roger J. Computations for additive Diophantine equations: pairs of quintic congruences. II. 90b:11030
 Duke, W. (with Schulze-Pillot, Rainer) Representation of integers by positive ternary quadratic forms and equidistribution of lattice points on ellipsoids. 90m:11051
 Heath-Brown, D. R. Weyl's inequality and Hua's inequality. 90i:11110
 Huxley, M. N. (with Watt, N.) Exponential sums with a parameter. 90b:11075
 Kulmatov, A. K. On the finiteness of the number of classes of primitive quadratic forms of Liouville type. (Russian) 90b:11035
 Liu, Ming Chit (with Tsang, Kai Man) Small prime solutions of linear equations. 90i:11112
 Pintz, J. A note on the exceptional set in Goldbach's problem. 90e:11146
 Rausch, Ulrich Eine Formel für die Koeffizientensumme von Potenzreihen mit Anwendung auf das Kreis- und Kugelproblem in total reellen algebraischen Zahlkörpern. [A formula for the sum of the coefficients of power series with application to the circle and sphere problem in totally real algebraic number fields] 90a:11138
 Sárközy, A. Hybrid problems in number theory. 90m:11137
 Schulze-Pillot, Rainer see Duke, W., 90m:11051
 Srinivasan, Seshadri A Diophantine inequality with prime variables. 90a:11042
 Toliver, Ralph Haeger Bounds for solutions of two additive equations of odd degree. 90g:11040
 Tsang, Kai Man see Liu, Ming Chit, 90i:11112
 Vepkhvadze, T. V. Representation of numbers by positive quadratic forms with five variables. (Russian) 90d:11045
 Wang, Yuan¹ Diophantine inequalities for forms in an algebraic number field. 90i:11021
 Watt, N. see Huxley, M. N., 90b:11075
 Wolke, Dieter Über das Primzahl-Zwillingsproblem. [On the prime twin problem] 90k:11117

11P57 Partitions: recurrence relations, generating functions, etc.

- Andrews, George (with Baxter, Rodney James) A motivated proof of the Rogers-Ramanujan identities. 90i:11147
 Baxter, Rodney James see Andrews, George, 90i:11147
 Kelly, John B. Partitions with equal products. II. 90i:11148
 Kwong, Y. H. Harris Minimum periods of partition functions modulo M . 90b:11099
 Langlands, R. P. The factorization of a polynomial defined by partitions. 90j:11101
 Padmavathamma The Hardy-Ramanujan-Rademacher expansion for restricted generalised Frobenius partitions. 90b:11100
 Vennot, Gérard Xavier Bijections for the Rogers-Ramanujan reciprocal. 90m:11149

Items with secondary classifications in 11P57

- Agarwal, Ashok Kumar¹ On a generalized partition theorem. 90i:11149
 — Bijective proofs of some n -color partition identities. 90g:05023
 — New combinatorial interpretations of two analytic identities. 90g:05027
 Andrews, George Physics, Ramanujan, and computer algebra. 90d:05025
 Biedenharn, L. C. (with Louck, J. D.) Inhomogeneous basis set of symmetric polynomials defined by tableaux. 90m:22031
 Bressoud, David M. Almost poised basic hypergeometric series. 90c:33010
 — Lattice paths and the Rogers-Ramanujan identities. 90k:05009
 — In the land of OZ. 90j:05012
 Cameron, Peter J. Some sequences of integers. 90i:05011
 Date, E. (with Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) Exactly solvable SOS models. II. Proof of the star-triangle relation and combinatorial identities. 90c:82077
 Gasper, George Bibasic summation, transformation and expansion formulas, q -analogues of Clausen's formula, and nonnegative basic hypergeometric series. 90j:05025
 Goodman, Fred (with O'Hara, Kathleen M.) On the Gaussian polynomials. 90j:05026a
 Hirschhorn, Michael D. A generalisation of Winquist's identity and a conjecture of Ramanujan. 90i:11152
 Jimbo, Michio see Date, E., et al., 90c:82077
 Kuniba, A. see Date, E., et al., 90c:82077
 Louck, J. D. see Biedenharn, L. C., 90m:22031
 Macdonald, I. G. An elementary proof of a q -binomial identity. 90j:05026c
 Milne, S. C. A q -analog of the Gauss summation theorem for hypergeometric series in $U(n)$. 90c:33006
 Miwa, Tetsuji see Date, E., et al., 90c:82077
 O'Hara, Kathleen M. Unimodality of Gaussian coefficients: a constructive proof. 90k:05024
 — see also Goodman, Fred, 90j:05026a
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 Propp, James Some variants of Ferrers diagrams. 90b:05022

- Tracy, Craig A. Introduction to exactly solvable models in statistical mechanics. 90f:82008
 Van der Jeugt, J. Unimodal polynomials arising from Lie superalgebras. 90e:17013
 Zeilberger, Doreen Identities. 90f:05010
 — A one-line high school algebra proof of the unimodality of the Gaussian polynomials $\begin{Bmatrix} n \\ k \end{Bmatrix}$ for $k < 20$. 90j:05026b

11P65 Partitions: multipartite, and related problems

- Freiman, G. On extremal additive problems of Paul Erdős. 90b:11101

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- Biagioli, Anthony J. A proof of some identities of Ramanujan using modular forms. 90m:11060
 Propp, James Some variants of Ferrers diagrams. 90h:05022

11P68 Partitions: restricted by congruence, inequality or repetition conditions

- Agarwal, Ashok Kumar¹ On a generalized partition theorem. 90e:11149
 — (with Andrews, George; Bressoud, David M.) The Bailey lattice. 90f:11113
 Andrews, George (with Garvan, F. G.) Ramanujan's "lost" notebook. VI. The mock theta conjectures. 90d:11115
 — see also Agarwal, Ashok Kumar¹; et al., 90i:11113
 Bressoud, David M. see Agarwal, Ashok Kumar¹; et al., 90i:11113
 Dixmier, Jacques Sur les sous-sommes d'une partition. (English summary) [On the subsums of a partition] 90h:11100
 Erdős, Paul (with Nicolas, Jean-Louis; Szalay, M.) Partitions into parts which are unequal and large. 90g:11140
 Garvan, F. G. (with Stanton, Dennis) Sieved partition functions and q -binomial coefficients. 90j:11102
 — see also Andrews, George, 90d:11115
 Kannan, V. Rogers-Ramanujan identities—an elementary introduction. 90e:11150
 Kolitsch, Louis Worthy A relationship between certain colored generalized Frobenius partitions and ordinary partitions. 90m:11150
 Nicolas, Jean-Louis see Erdős, Paul; et al., 90g:11140
 Schinzel, A. (with Wirsing, E.) Multiplicative properties of the partition function. 90b:11102
 Stanton, Dennis see Garvan, F. G., 90j:11102
 Szalay, M. see Erdős, Paul; et al., 90g:11140
 Wirsing, E. see Schinzel, A., 90b:11102
 Yang, Kung-Wei On the product $\prod_{n \geq 1} (1 + q^n x + q^{2n} x^2)$. 90i:11114

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- Andrews, George Mock theta functions. 90h:33005
 Joyce, G. S. On the icosahedral equation and the locus of zeros for the grand partition function of the hard-hexagon model. 90e:82101
 Stembridge, John R. Hall-Littlewood functions, plane partitions, and the Rogers-Ramanujan identities. 90j:05021

11P72 Partitions: asymptotic, convergent series expansions

- Erdős, Paul (with Nicolas, Jean-Louis; Sárközy, A.) On the number of partitions of n without a given subsum. I. 90e:11151
 Nicolas, Jean-Louis see Erdős, Paul; et al., 90i:11151
 Sárközy, A. see Erdős, Paul; et al., 90i:11151

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- Dixmier, Jacques Sur les sous-sommes d'une partition. (English summary) [On the subsums of a partition] 90h:11100
 Vaisburd, I. D. A real section of the moduli space and the partition function of the open bosonic string. 90d:81122

11P76 Partitions: congruences for partition functions

- Achuthan, P. (with Sundar, S.) Ramanujan functions, continued fractions and rational approximants. 90j:11103
 Hirschhorn, Michael D. A generalisation of Winquist's identity and a conjecture of Ramanujan. 90e:11152
 Raghavan, Srinivasacharya On Ramanujan's modular identities. 90j:11104
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- Hickerson, Dean On the seventh order mock theta functions. 90f:11028b

11P80 Partitions: miscellaneous results

- Anshel, Michael (with Goldfeld, Dorian) Applications of the Hardy-Ramanujan partition theory to linear Diophantine problems. 90i:11115
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Items with secondary classifications in 11P80

- Almkvist, Gert Proof of a conjecture about unimodal polynomials. 90g:05024
 Atkinson, M. D. Perfect addition tables and applications to array storage. 90g:68041
 Baranov, V. I. (with Stechkin, B. S.) ★ Экстремальные комбинаторные задачи и их приложения. (Russian) [Extremal combinatorial problems and their applications] 90m:05001
 Christe, P. (with Ravanini, F.) $G_N \otimes G_L / G_{N+L}$ conformal field theories and their modular invariant partition functions. 90j:81179
 Erdős, Paul (with Sárközy, A.; Sós, V. T.) On a conjecture of Roth and some related problems. I. 90d:11017

- Marlowe, T. J. (with Paull, M. C.) Least-cost partition algorithms. 90b:11143
 Moreno, C. J. (with Rocha-Caridi, A.) The exact formula for the weight multiplicities of affine Lie algebras. I. 90e:17036
 Padmavathamma On Andrews' generalized Frobenius partitions. 90k:05019
 Paull, M. C. see Marlowe, T. J., 90b:11143
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 Rocha-Caridi, A. see Moreno, C. J., 90e:17036
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 Shao, Jia Yu Some computational formulas for the Frobenius numbers. (Chinese. English summary) 90h:11021
 Sós, V. T. see Erdős, Paul; et al., 90d:11017
 Stechkin, B. S. see Baranov, V. I., 90m:05001
 Torriani, Hugo H. Constructive implicit function theorems. 90h:05017

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- Gauthier, N. Derivation of a formula for $\sum r^k x^r$. 90j:11016
 Li, Bao Qin (with Song, Guo Dong¹) On Goldbach problem concerning factorization of meromorphic functions. 90m:30031
 Maxsein, Th. Potenzreihen die einer Wachstumsbedingung genügen und additive Koeffizienten besitzen. [Power series which satisfy a growth condition and have additive coefficients] 90i:30005
 Nathanson, Melvyn B. (with Sárközy, A.) On the maximum density of minimal asymptotic bases. 90a:11021
 Pathria, R. K. see Singh, Sarjit², 90e:11062
 Recknagel, Winfried Über k -freie Zahlen als Summe von zwei Quadraten. [On k -free numbers as sum of two squares] 90d:11104
 Sárközy, A. see Nathanson, Melvyn B., 90i:11021
 Singh, Sarjit² (with Pathria, R. K.) Analytical evaluation of a class of lattice sums in arbitrary dimensions. 90e:11062
 Song, Guo Dong¹ see Li, Bao Qin, 90m:30031
 Vaserstein, L. N. Noncommutative number theory. 90d:11033
 Zannier, Umberto On a theorem of Birch concerning sums of distinct integers taken from certain sequences. 90h:11011

11Qxx Other arithmetic-analytic topics

11Q05 Analytic functions

Items with secondary classifications in 11Q05

- Bazylewicz, A. Critère de reconnaissabilité de fonctions analytiques et fonctions entières arithmétiques. [Recognizability criterion for analytic functions and arithmetical entire functions] 90h:30030
 Bézivin, J.-P. Solutions rationnelles de certaines équations fonctionnelles. [Rational solutions of some functional equations] 90e:11015
 Chudnovsky, David V. (with Chudnovsky, Gregory V.) On expansion of algebraic functions in power and Puiseux series. I. 90d:68031a
 — (with Chudnovsky, Gregory V.) On expansion of algebraic functions in power and Puiseux series. II. 90d:68031b
 Chudnovsky, Gregory V. see Chudnovsky, David V., 90d:68031a and 90d:68031b
 Langeria, M. Problème de Favard pour les corps quadratiques imaginaires et majoration des discriminants. (English summary) [Favard's problem for imaginary quadratic fields and discriminant bounds] 90d:11116
 Li, Bao Qin (with Song, Guo Dong¹) On Goldbach problem concerning factorization of meromorphic functions. 90m:30031
 Song, Guo Dong¹ see Li, Bao Qin, 90m:30031

11Q10 Differential equations

Items with secondary classifications in 11Q10

- Nesterenko, Yu. V. Estimates for the number of zeros of certain functions. 90d:11085
 Wheeler, Ferrell S. Two differential-difference equations arising in number theory. 90g:11134

11Q15 Probability theory and ergodic theory

Items with secondary classifications in 11Q15

- Hellekalek, P. (with Larcher, G.) On Weyl sums and skew products over irrational rotations. 90m:28019
 Larcher, G. see Hellekalek, P., 90m:28019

11Q20 Fourier analysis, approximation theory; functional analysis

- Bykovskii, V. A. Discrete Fourier transform and cyclic convolution on integral lattices. 90c:11077
 Klusch, Dieter On Mellin-Ramanujan expansions. 90k:11132
 Items with secondary classifications in 11Q20
 Mirmukhamedov, S. M. A condition of Salem type for rearranged multiplicative systems. (Russian. Tajiki summary) 90k:42049
 Takahashi, Shigeru An asymptotic behavior of $\{f(n_k t)\}$. 90m:26004

11Q25 Non-Archimedean analysis

Denef, J. Multiplicity of the poles of the Poincaré series of a p -adic subanalytic set. 90f:11089

Hà Huy Khôdi (with My Vinh Quang) On p -adic Nevanlinna theory. 90e:11153
My Vinh Quang see Hà Huy Khôdi, 90e:11153

Items with secondary classifications in 11Q25

André, Yves Spécialisation dans les disques singuliers réguliers. [Specialization in regular singular discs] 90f:12008

Arefeva, I. Ya. (with Dragović, B. G.; Volovich, I. V.) On the adelic string amplitudes. 90a:81108

— (with Dragović, B. G.; Volovich, I. V.) p -adic superstrings. 90a:81109

Brekke, Lee (with Freund, Peter G. O.; Melzer, Ezer; Olson, Mark) Adelic string N -point amplitudes. 90g:81215

De Grande-De Kimpe, N. (with Pérez-García, Cristina) Weakly closed subspaces and the Hahn-Banach extension property in p -adic analysis. 90a:46196

Dragović, B. G. see Arefeva, I. Ya.; et al., 90a:81108 and 90a:81109

Freund, Peter G. O. Real, p -adic and adelic strings. (see 90m:81002)

— see also Brekke, Lee; et al., 90g:81215

Grossman, Bernard The adelic components of the index of the Dirac operator. 90b:81126
Knopfmacher, Arnold (with Knopfmacher, John) Series expansions in p -adic and other non-Archimedean fields. 90e:11073

Knopfmacher, John see Knopfmacher, Arnold, 90e:11073

Mal'uta, Yu. M. A p -adic oscillator. (Russian. English summary) 90b:58269

Melzer, Ezer Non-Archimedean conformal field theories. 90f:81227

— see also Brekke, Lee; et al., 90g:81215

Missarav, M. D. Random fields on the adèle ring and Wilson's renormalization group. (French summary) 90m:81075

Olson, Mark see Brekke, Lee; et al., 90g:81215

Pérez-García, Cristina see De Grande-De Kimpe, N., 90a:46196

Ruelle, Ph. (with Thiran, E.; Versteegen, D.; Weyers, J.) Adelic string and superstring amplitudes. 90b:81188

Spokoinyi, B. L. Non-Archimedean geometry and quantum mechanics. 90f:81071

Thiran, E. see Ruelle, Ph.; et al., 90b:81188

Versteegen, D. see Ruelle, Ph.; et al., 90b:81188

Volovich, I. V. p -adic quantum theory and strings. (see 90m:81002)

— see also Arefeva, I. Ya.; et al., 90a:81108 and 90a:81109

Weyers, J. see Ruelle, Ph.; et al., 90b:81188

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Schuster, Reinhard A lattice problem for differential forms in Euclidean spaces. (German and Russian summaries) 90f:11105

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Rumely, Robert Notes on van der Poorten's proof of the Hadamard quotient theorem. I, II. 90d:11090

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

11R04 Algebraic numbers: general

Blankensby, P. E. (with Lloyd-Smith, C. W.; McAuley, M. J.) On diameters of algebraic integers. 90f:11106

Bombieri, E. (with Vaaler, J. D.) Polynomials with low height and prescribed vanishing. 90k:11133

Greaves, A. (with Odoni, R. W. K.) Weil-numbers and CM-fields. I. 90a:11115

Just, Bettina Integer relations among algebraic numbers. 90e:11154

Langevin, M. Solution et histoire d'un problème de Favard. [Solution and history of a problem of Favard] 90g:11141

— (with Reysat, E.; Rhin, Georges) Diamètres transfinis et problème de Favard. (English summary) [Transfinite diameters and the Favard problem] 90b:11103

— Solution des problèmes de Favard. (English summary) [Solution of Favard problems] 90b:11104

— Problème de Favard pour les corps quadratiques imaginaires et majoration des discriminants. (English summary) [Favard's problem for imaginary quadratic fields and discriminant bounds] 90d:11116

— (with Reysat, E.; Rhin, Georges) Transfinite diameter and Favard's problems on diameters of algebraic integers. 90f:11107

Lloyd-Smith, C. W. see Blankensby, P. E.; et al., 90f:11106

McAuley, M. J. see Blankensby, P. E.; et al., 90f:11106

McDaniel, Wayne L. An analogue in certain unique factorization domains of the Euclidean theorem on perfect numbers. 90k:11134

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- Lazarus, Andrew J. Letter to the editor: "Duality in nonnormal quartic fields" [Amer. Math. Monthly 94 (1987), no. 3, 279–284; MR 88j:11064; errata; MR 89c:11156] by C. E. van der Ploeg. 90c:11081
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Gras, Georges Non monogénéité d'anneaux d'entiers. [Nonmonogeneity of rings of integers] **90k:11147**

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Gold, R. (with Kisilevsky, H.) On geometric Z_p -extensions of function fields. **90e:11160** — (with Kisilevsky, H.) Z_p -extensions of function fields. **90k:11141**

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Feng, Ke Qin (with Cheng, Lu) Minkowski units in function fields. (Chinese) (Not in MR)

Gold, R. (with Kim, Jaemoon) Bases for cyclotomic units. **90k:11101**

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Inatomi, Akira On Z_p -extensions of real abelian fields. **90c:11119**

Ishii, Noburo Quadratic units and congruences between Hilbert modular forms. **90b:11047**

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— Self-similarity of quasilattices in two dimensions. II. The "non-Bravais-type" n -gonal quasilattice. **90k:11079**

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- Ford, David J. (with McKay, John) Computation of Galois groups from polynomials over the rationals. 90h:11113
- Harrison, D. K. see Beale, Stephen, 90a:13008 and 90j:12008
- Homard, Denis Modules galoisiens de torsion et plongements dans les Z_p -extensions. [Torsion Galois modules and embeddings in Z_p -extensions] 90a:11126
- Ichimura, Humio (with Kaneko, Masanobu) On the universal power series for Jacobi sums and the Vandiver conjecture. 90m:11162
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- Katayama, Shin-ichi $E(K/k)$ and other arithmetical invariants for finite Galois extensions. 90j:11116
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- Kurtz, Bernd-Günter (with Rosenbaum, Kurt) Die irreduziblen Darstellungen der zyklischen Gruppe der Ordnung 2^n über den Zwischenkörpern des 2^n -ten Kreisteilungskörpers. [The irreducible representations of the cyclic group of order 2^n over the intermediate fields of the 2^n -th cyclotomic field] (Not in MR)
- Rosenbaum, Kurt Zur symplektischen Struktur von Darstellungsmoduln zyklischer Gruppen über algebraischen Zahlkörpern. II. [On the symplectic structure of representation modules of cyclic groups over algebraic number fields. II] (Not in MR)
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- Bhandari, Ashwani K. (with Luthar, I. S.) Corrigendum: "Conjugacy classes of torsion units of the integral group ring of D_p " [Comm. Algebra 11 (1983), no. 14, 1607-1627; MR 84j:20011]. 90k:20010
- Cougnard, Jean Résultats récents sur la monogénéité de certains anneaux d'entiers. [Recent results on the monogeneity of certain rings of integers] 90e:11155
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- Fröhlich, Albrecht L -values at zero and multiplicative Galois module structure (also Galois Gauss sums and additive Galois module structure). 90g:11157
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- Fleckinger, Vincent Modèle de Deuring et monogénéité des anneaux d'entiers des corps de rayons d'un corps quadratique imaginaire dans le cas 3 ramifié. [Deuring model and monogeneity of the rings of integers of the ray class field of an imaginary quadratic field when 3 is ramified] 90b:11060
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Items with secondary classifications in 11R39

- Arthur, James (with Clozel, Laurent) ★ Simple algebras, base change, and the advanced theory of the trace formula. 90m:22041
 Blasius, Don (with Rogawski, J. D.) Galois representations for Hilbert modular forms. 90b:11046
 Bump, Daniel The Rankin-Selberg method: a survey. 90m:11079
 — (with Friedman, Solomon) On Mellin transforms of unramified Whittaker functions on $GL(3, C)$. 90k:22009
 Clozel, Laurent see Arthur, James, 90m:22041
 Drinfel'd, V. G. Proof of the Petersson conjecture for $GL(2)$ over a global field of characteristic p . 90c:11038
 — On my paper: "Cohomology of compactified moduli varieties of F -sheaves of rank 2" [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI) 162 (1987), Avtororrf. Funkts. i Teor. Chisel. III, 107–158; MR 89b:11050]. (Russian) 90k:11072
 Flicker, Yuval Z. (with Kazhdan, David A.) A simple trace formula. 90b:11078
 — (with Kazhdan, David A.) Geometric Ramanujan conjecture and Drinfel'd reciprocity law. 90g:11063
 — Base change trace identity for $U(3)$. 90m:11080
 Frey, Gerhard L -series of elliptic curves: results, conjectures and consequences. 90e:11093
 Friedman, Solomon see Bump, Daniel, 90k:22009
 Gelbart, S. Recent results on automorphic L -functions. 90k:11066
 Ikeda, Tamotsu On the functional equations of the triple L -functions. 90g:11064
 Kazhdan, David A. see Flicker, Yuval Z., 90b:11078 and 90g:11063
 Langlands, R. P. Eisenstein series, the trace formula, and the modern theory of automorphic forms. 90e:11077
 Mazur, Barry C. Deforming Galois representations. 90k:11057
 Oda, Takayuki Abelian l -adic representations associated with Selberg integrals. 90i:14013
 Rogawski, J. D. see Blasius, Don, 90b:11046
 Shahidi, Freydoon Third symmetric power L -functions for $GL(2)$. 90m:11081
 Ye, Yang Bo Kloosterman integrals and base change. 90b:11058

Items listed otherwise than by author

- Annals of Mathematics Studies see Arthur, James, 90m:22041

11R42 Zeta functions and L -functions of number fields [see also 11M41, 19F27]

- Adachi, Norio (with Komatsu, Keiichi) The maximal p -extensions and zeta-functions of algebraic number fields. 90a:11135
 Colmez, Pierre Périodes de variétés abéliennes à multiplication complexe et dérivées de fonctions L d'Artin en $s = 0$. (English summary) [Periods of abelian varieties with complex multiplication and derivatives of Artin L -functions at $s = 0$] 90b:11106
 Conrey, J. Brian (with Ghosh, Amit; Gonek, S. M.) Simple zeros of the zeta-function of a quadratic number field. II. 90b:11135
 Foote, Richard Nonmonomial characters and Artin's conjecture. 90m:11177
 Friedman, Eduardo Hecke's integral formula. 90i:11136
 Fröhlich, Albrecht L -values at zero and multiplicative Galois module structure (also Galois Gauss sums and additive Galois module structure). 90g:11157
 Gérardin, Paul (with Li, Wen-Ch'ing Winnie) Twisted Dirichlet series and distributions. 90m:11178
 Ghosh, Amit see Conrey, J. Brian; et al., 90b:11135
 Gonek, S. M. see Conrey, J. Brian; et al., 90b:11135
 Greenberg, Ralph Nonvanishing of certain values of L -functions. 90j:11124
 Gross, Benedict H. (with Rosen, Michael I.) Fourier series and the special values of L -functions. 90k:11150
 Hinz, Jürgen G. A generalization of Bombieri's prime number theorem to algebraic number fields. 90e:11175
 Komatsu, Keiichi Eine Bemerkung über Dedekindsche Zetafunktionen und K -Gruppe. [A remark on Dedekind zeta functions and K -group] 90m:11179
 — see also Adachi, Norio, 90a:11135
 Kono, Shuji On Kronecker's limit formula for certain biquadratic fields. 90a:11136
 Kuzuka, Kazuhito On two variable p -adic L -functions and a p -adic class number formula. 90g:11158
 Kur'min, L. V. Some remarks on the l -adic regulator. II. 90k:11151
 Li, Wen-Ch'ing Winnie see Gérardin, Paul, 90m:11178
 Miyake, Katsuya A note on the arithmetic background to Frobenius' theory of group characters. 90k:11152
 Müller, Wolfgang² The mean square of the Dedekind zeta function in quadratic number fields. 90i:11137
 Murty, V. Kumar Holomorphy of Artin L -functions. 90e:11176

- Neugebauer, Adam On the zeros of the Dedekind zeta-function near the real axis. 90b:11122

- Rosen, Michael I. see Gross, Benedict H., 90k:11150
 Salkin, Promode Kumar Zeta functions of orders in quadratic fields. 90j:11125
 Werbiński, Tadeusz An effective version of a theorem of T. Mitsui. 90m:11180
 Wright, David J. Twists of the Iwasawa-Tate zeta function. 90c:11087
 Yamagishi, Masakazu On a conjecture of Gross on special values of L -functions. 90g:11159
 Yoshida, Hiroyuki On a certain distribution on $GL(n)$ and explicit formulas. 90c:11088
 Yü, Wen Ch'ing On the values at nonpositive integers of the Dedekind zeta function of a real quadratic field. 90e:11177
 — On the values at negative half-integers of the Dedekind zeta function of a real quadratic field. 90a:11137
 Zagier, Don The Bloch-Wigner-Ramkrishnan polylogarithm function. 90k:11153

Items with secondary classifications in 11R42

- Chinburg, Ted The analytic theory of multiplicative Galois structure. 90b:11116
 Colmez, Pierre Algèbre des valeurs spéciales de fonctions L . [Algebraicity of special values of L -functions] 90b:11030
 Conner, P. E. (with Yui, Noriko) The additive characters of the Witt ring of an algebraic number field. 90a:11130
 Denert, Marleen Zeta functions of arithmetic orders. 90a:11139
 Deninger, Ch. Higher regulators of elliptic curves with complex multiplication. 90b:11040
 — Higher regulators and Hecke L -series of imaginary quadratic fields. I. 90b:11041
 Desnoix, Pierre-Jean Congruences dyadiques entre nombres de classes de corps quadratiques. [2-adic congruences between class numbers of quadratic fields] 90b:11103
 Frey, Gerhard L -series of elliptic curves: results, conjectures and consequences. 90e:11093
 Fujiwara, Yasuaki On divisibilities of special values of real analytic Eisenstein series. 90b:11070
 Funakura, Takeo On coefficients of Artin L functions as Dirichlet series. 90m:11131
 Goldfeld, Dorian Explicit formulae as trace formulae. 90b:11045
 Gras, Georges Relations congruentielles linéaires entre nombres de classes de corps quadratiques. [Linear congruence relations between class numbers of quadratic fields] 90b:11127
 Hennart, Guy Cyclotomie et valeurs de la fonction Γ (d'après G. Anderson). [Cyclotomy and values of the Γ -function (following G. Anderson)] 90b:11055
 Hettling, Karl F. On odd prime numbers dividing the order of $K_2(o)$. 90b:11125
 Hoffstein, Jeffrey (with Jochowitz, N.) On Artin's conjecture and the class number of certain CM fields. I, II. 90b:11104
 Ishii, Noburo Quadratic units and congruences between Hilbert modular forms. 90b:11047
 Janssen, Uwe On the Galois cohomology of l -adic representations attached to varieties over local or global fields. 90b:14010
 Jochowitz, N. see Hoffstein, Jeffrey, 90b:11104
 Kolster, Manfred A relation between the 2-primary parts of the main conjecture and the Birch-Tate-conjecture. 90k:11154
 Kono, Shuji Eisenstein series in hyperbolic 3-space and Kronecker limit formula for biquadratic field. 90b:11064
 Morishita, Masanori Iwasawa theoretical residue formulas for algebraic tori. 90b:11120
 Nekovář, Jan Iwasawa's main conjecture (a survey). (Russian and Czech summaries) 90d:11119
 Neukirch, Jürgen The Beilinson conjecture for algebraic number fields. 90b:11042
 Ono, Takashi On some arithmetic properties of certain quadratic fibrations. 90e:11054
 Ramakrishnan, Dinakar Regulators, algebraic cycles, and values of L -functions. 90e:11094
 Rohrlich, David E. L -functions and division towers. 90a:11066
 — Nonvanishing of L -functions for $GL(2)$. 90g:11062
 Shahidi, Freydoon Third symmetric power L -functions for $GL(2)$. 90m:11081
 Shirasaka, Shigeshi On a theorem of S. Chowla. 90d:11068
 Smith, Victor Remarks on group actions and induction theorems. 90b:20009
 Szydio, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. III. (English summary) [On sign changes of certain arithmetic functions. III] 90m:11181
 Thomason, R. W. Survey of algebraic vs. étale topological K -theory. 90b:14029
 Weselmann, Uwe An elementary identity in the theory of Hecke L -functions. 90e:11031
 Yui, Noriko see Conner, P. E., 90a:11130

11R44 Distribution of prime ideals [see also 11N05]

- Kaczorowski, Jerzy (with Staś, Włodzimierz) On the number of sign changes in the remainder-term of the prime-ideal theorem. 90b:11123
 Staś, Włodzimierz see Kaczorowski, Jerzy, 90b:11123
 Szydio, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. III. (English summary) [On sign changes of certain arithmetic functions. III] 90m:11181

11R45 Density theorems

- Bhaskaran, M. Some applications of Tchebotarev density theorem. 90d:11127
 Bilhan, Mehpare Tchebotarev's density theorem in global fields. (Turkish summary) 90b:11126
 Wójcik, J. On the congruence $f(x^q) \equiv 0 \pmod{q}$, where q is a prime and f is a polynomial. 90g:11160

Items with secondary classifications in 11R45

- Fujiwara, Masahiko Counting points in a small box on varieties. 90d:11075
 Gerth, Frank, III The 4-class ranks of quadratic extensions of certain real quadratic fields. 90b:11125
 Greaves, A. (with Odoni, R. W. K.) Weil-numbers and CM-fields. I. 90a:11115
 Odoni, R. W. K. On the distribution of norms of ideals in given ray-classes and the theory of central ray-class fields. 90m:11175
 — see also Greaves, A., 90a:11115
 Wright, David J. Distribution of discriminants of abelian extensions. 90b:11115

11R47 Other analytic theory

Rausch, Ulrich Eine Formel für die Koeffizientensumme von Potenzreihen mit Anwendung auf das Kreis- und Kugelproblem in total reellen algebraischen Zahlkörpern. [A formula for the sum of the coefficients of power series with application to the circle and sphere problem in totally real algebraic number fields] 90a:11138

Items with secondary classifications in 11R47

Everest, G. R. Some meromorphic functions associated to the S -unit equation. 90b:11030

Hinz, Jürgen G. Square-free values of cubic polynomials in algebraic number fields. 90g:11131

Narkiewicz, W. Artin's conjecture in algebraic number fields and a related question concerning units. (see 90a:11003)

Orlov, I. N. Integral laws for the distribution of additive functions, and algebraic number fields. 90c:11053

11R52 Quaternion and other division algebras: arithmetic, zeta functions

Denert, Marleen Zeta functions of arithmetic orders. 90a:11139

Hijikata, Hiroaki (with Pizer, Arnold K.; Shemanske, T.) Orders in quaternion algebras. 90d:11128

Körner, Otto Traces of Eichler-Brandt matrices and type numbers of quaternion orders. 90b:11124

Krieg, Aloys The elementary divisor theory over the Hurwitz order of integral quaternions. 90c:11140

Pizer, Arnold K. see Hijikata, Hiroaki; et al., 90d:11128

Shemanske, T. see Hijikata, Hiroaki; et al., 90d:11128

Items with secondary classifications in 11R52

Estes, Dennis R. (with Nipp, Gordon) Factorization in quaternion orders. 90m:11048

Gross, Benedict H. Local orders, root numbers, and modular curves. 90b:11053

Katsura, Toshiyuki (with Oort, Frans) Supersingular abelian varieties of dimension two or three and class numbers. 90c:14027

Krieg, Aloys The Hecke-algebras related to the unimodular and modular group over the Hurwitz order of integral quaternions. 90b:11048

Nipp, Gordon see Estes, Dennis R., 90m:11048

Oort, Frans see Katsura, Toshiyuki, 90c:14027

Riehm, Carl R. The quadratic Schur subgroup over local and global fields. 90c:12003

11R54 Other algebras and orders, and their zeta and L -functions [see also 11S45, 16A18, 16A39]

Brzezinski, Juliusz A combinatorial class number formula. 90j:11127

— On automorphisms of quaternion orders. 90m:11182

Denert, Marleen (with Van Geel, Jan) Orders in quaternion algebras over global function fields having the cancellation property. 90g:11161

— Orders, in non-Eichler (R)-algebras over global function fields, having the cancellation property. 90m:11183

— The genus zeta function of hereditary orders in central simple algebras over global fields. 90c:11178

Van Geel, Jan see Denert, Marleen, 90g:11161

Items with secondary classifications in 11R54

Chernousov, V. I. Groups of rational points of algebraic groups over algebraically nonclosed fields. (Russian) 90k:20077

Denert, Marleen Zeta functions of arithmetic orders. 90a:11139

— (with Van Geel, Jan) Remark on a paper of D. W. Lewis concerning the level of division algebras: "Levels and sublevels of division algebras" [Proc. Roy. Irish Acad. Sect. A 87 (1987), no. 1, 103–106; MR 89f:12003]. 90k:16019

Le Bruyn, Lieve (with Van den Bergh, Michel; Van Oystaeyen, F.) ★ Graded orders. 90b:16004

Leop, David B. (with Tignol, J.-P.; Vast, N.) The level of division algebras over local and global fields. 90b:11038

(Lewis, D. W.) see Denert, Marleen, 90k:16019

Nakagawa, Jin Binary forms and orders of algebraic number fields. 90k:11042

Riehm, Carl R. The linear and quadratic Schur subgroups over the S -integers of a number field. 90a:11146

Saikia, Promode Kumar Zeta functions of orders in quadratic fields. 90j:11125

Stevens, Peter Unramified class field theory for orders. 90b:11119

Tignol, J.-P. see Leop, David B.; et al., 90b:11038

Van den Bergh, Michel see Le Bruyn, Lieve; et al., 90b:16004

Van Geel, Jan see Denert, Marleen, 90g:11161

Van Oystaeyen, F. see Le Bruyn, Lieve; et al., 90b:16004

Vast, N. see Leop, David B.; et al., 90b:11038

11R56 Adèle rings and groups

Items with secondary classifications in 11R56

Lan, Yi Zhong On cubic cyclic extensions of number fields. II. (Chinese) 90c:11116

Manin, Yu. I. Reflections on arithmetical physics. 90m:11195

Saito, Hiroshi On a Hasse principle for σ -conjugacy. 90m:22042

11R58 Arithmetic theory of algebraic function fields [see also 14-XX]

Cheng, Lu see Feng, Ke Qin, (Not in MR)

Feng, Ke Qin (with Cheng, Lu) Minkowski units in function fields. (Chinese) (Not in MR)

Gekeler, Ernst-Ulrich Méthodes analytiques rigides dans la théorie arithmétique des corps de fonctions. [Rigid analytic methods in the arithmetic theory of function fields] 90a:11141

— Some new identities for Bernoulli-Carlitz numbers. 90j:11128

Gérardin, Paul Le théorème de Riemann-Roch et les corps de nombres algébriques. (English summary) [The Riemann-Roch theorem and algebraic number fields] 90m:11184

Goss, David Fourier series, measures and divided power series in the theory of function fields. 90c:11138

Kambayashi, Tatsuji (with Takano, Yoshinori) On the arithmetic of quadratic function fields. 90j:11129

Khanduja, Sudesh K. Certain quadratic unramified extensions of $F(T, \sqrt{D(T)})$ and theory of genera for quadratic extensions of $F_q(T)$. 90b:11107

Lewittes, Joseph Genus and gaps in function fields. 90d:11129

van der Linden, F. J. Integer valued polynomials over function fields. 90a:11142

Takano, Yoshinori see Kambayashi, Tatsuji, 90j:11129

Zhang, Xian Ke Algebraic function fields of type $(2, 2, \dots, 2)$. 90a:11143

— Determination of algebraic function fields of type $(2, 2, \dots, 2)$ with class number one. 90a:11144

Items with secondary classifications in 11R58

Ando, Kiyoshi see Mizuno, Hirobumi; et al., 90a:94043

Cheng, Lu see Feng, Ke Qin, 90m:11157

Denert, Marleen (with Van Geel, Jan) Orders in quaternion algebras over global function fields having the cancellation property. 90g:11161

— (with Van Geel, Jan) The class number of hereditary orders in non-Eichler algebras over global function fields. 90d:11126

— Orders, in non-Eichler (R)-algebras over global function fields, having the cancellation property. 90m:11183

Drinfel'd, V. G. On my paper: "Cohomology of compactified moduli varieties of F -sheaves of rank 2" [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI) 162 (1987), Avtorrofin. Funkts. i Teor. Chisel. III, 107–158; MR 89b:11050]. (Russian) 90k:11072

Dzhuvara, O. Construction of the field of algebraic functions that corresponds to an n -sheeted covering of a sphere. (Russian) 90c:14031

Feng, Ke Qin (with Cheng, Lu) On the Minkowski unit in function fields. 90m:11157

García, Arnaldo On Weierstrass points on certain elementary abelian extensions of $k(x)$. 90m:14020

Gold, R. (with Kisilevsky, H.) On geometric Z_p -extensions of function fields. 90c:11160

— (with Kisilevsky, H.) Z_p -extensions of function fields. 90k:11141

Gross, Benedict H. (with Rosen, Michael L.) Fourier series and the special values of L -functions. 90k:11150

Ichijo, Takashi see Mizuno, Hirobumi; et al., 90a:94043

Ihara, Yasutaka The Galois representation arising from $P^1 - \{0, 1, \infty\}$ and Tate twists of even degree. 90k:11067

Ikeda, Kohji see Mizuno, Hirobumi; et al., 90a:94043

Kaneko, Masanobu Certain automorphism groups of pro- l fundamental groups of punctured Riemann surfaces. 90j:14019

Kisilevsky, H. see Gold, R., 90c:11160 and 90k:11141

Matignon, Michel Genre et genre résiduel des corps de fonctions valués. (Genus and residual genus of valued function fields) 90a:11063

Mizuno, Hirobumi (with Ando, Kiyoshi; Ikeda, Kohji; Ichijo, Takashi) Code length and the zeta function. (Japanese. English summary) 90a:94043

Rosen, Michael L. see Gross, Benedict H., 90k:11150

Sherman, Clayton K -theory of discrete valuation rings. 90m:13015

Van Geel, Jan see Denert, Marleen, 90d:11126 and 90g:11161

Wright, David J. Twists of the Iwasawa-Tate zeta function. 90c:11087

Yu, Jie Tai On the fundamental units of algebraic function fields. (Chinese) 90k:11143

Yu, Jing Transcendence and Drinfeld modules: several variables. 90j:11056

11R65 Class groups and Picard groups of orders

Gustafson, William H. (with Roggenkamp, Klaus W.) A Mayer-Vietoris sequence for Picard groups, with applications to integral group rings of dihedral and quaternion groups. 90a:11145

Riehm, Carl R. The linear and quadratic Schur subgroups over the S -integers of a number field. 90a:11146

Roggenkamp, Klaus W. see Gustafson, William H., 90a:11145

11R70 K -theory of global fields [see also 19Fxx]

Browkin, Jerzy Conjectures on the dilogarithm. 90m:11185

Candiotti, Alan (with Kramer, Kenneth) On the 2-Sylow subgroup of the Hilbert kernel of K_2 of number fields. 90b:11108

Conner, P. E. (with Hurrelbrink, J.) The 4-rank of $K_2(O)$. 90j:11130

Hettinger, Karl F. On odd prime numbers dividing the order of $K_2(o)$. 90b:11125

Hurrelbrink, J. see Conner, P. E., 90j:11130

Keune, Frans On the structure of the K_2 of the ring of integers in a number field. 90g:11162

Kolster, Manfred A relation between the 2-primary parts of the main conjecture and the Birch-Tate-conjecture. 90k:11154

Komatsu, Keiichi K -groups and λ -invariants of algebraic number fields. 90b:11126

Kramer, Kenneth see Candiotti, Alan, 90b:11108

Merkur'ev, A. S. Torsion in the group K_2 for fields. 90d:11130

Items with secondary classifications in 11R70

Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] 90m:14016

Deninger, Ch. Higher regulators of elliptic curves with complex multiplication. 90f:11040

— Higher regulators and Hecke L -series of imaginary quadratic fields. I. 90f:11041

Gras, Georges (with Jaulent, Jean-François) Sur les corps de nombres réguliers. [On regular number fields] 90k:11128

Grayson, Daniel R. On the K -theory of fields. 90c:18010

- Jaulent, Jean-François *see* Gras, Georges, 90i:11128
 Kato, Kazuya A generalization of class field theory. (Japanese) 90g:11080
 Lichtenbaum, Stephen Groups related to scissors-congruence groups. 90e:20030
 Neukirch, Jürgen The Beilinson conjecture for algebraic number fields. 90f:11042
 Zagier, Don The Bloch-Wigner-Ramakrishnan polylogarithm function. 90k:11153

11R80 Totally real and totally positive fields [see also 12J15]

- Skriganov, M. M. Lattices in algebraic number fields and uniform distribution mod 1. (Russian) 90k:11155

Items with secondary classifications in 11R80

- Buchmann, J. (with Pohst, M.; von Schmettow, J.) On the computation of unit groups and class groups of totally real quartic fields. 90e:11192
 Cheng, Lu *see* Feng, Ke Qin, 90m:11157
 Feng, Ke Qin (with Cheng, Lu) On the Minkowski unit in function fields. 90m:11157
 Hoffstein, Jeffrey (with Jochowitz, N.) On Artin's conjecture and the class number of certain CM fields. I, II. 90h:11104
 Jochowitz, N. *see* Hoffstein, Jeffrey, 90h:11104
 Pohst, M. *see* Buchmann, J.; et al., 90e:11192
 von Schmettow, J. *see* Buchmann, J.; et al., 90e:11192
 Yu, Jie-Tai On the fundamental units of algebraic function fields. (Chinese) 90k:11143

11R99 None of the above, but in this section

Items with secondary classifications in 11R99

- Grant, David Coates-Wiles towers in dimension two. 90f:11038
 Kongsakorn, Kannika *see* Laohakosol, Wichian; et al., 90j:34009
 Langerin, M. Solution et histoire d'un problème de Favard. [Solution and history of a problem of Favard] 90g:11141
 Laohakosol, Wichian (with Kongsakorn, Kannika; Ubolsri, Patchara) Denominators in the coefficients of power series satisfying linear differential equations. 90j:34009
 Laumon, Gérard Un analogue global du cône nilpotent. [A global analogue of the nilpotent cone] 90a:14012
 Thome, August Existenz von Ganzheitsbasen bei Kummererweiterungen und Komposita. [Existence of integral bases in Kummer extensions and composita] 90d:11120
 Ubolsri, Patchara *see* Laohakosol, Wichian; et al., 90j:34009

11Sxx Algebraic number theory: local and p -adic fields

11S05 Polynomials

- Lipshitz, L. p -adic zeros of polynomials. 90d:11131
 Zheng, Qiu Cheng The generalized Eisenstein criterion. 90k:11156

11S10 Units

- Pak, G. K. The multiplicative group of principal units of a cyclic 2-extension of a local field. (Russian) 90m:11186

11S15 Ramification and extension theory

- Laubie, F. Extensions de Lie et groupes d'automorphismes de corps locaux. [Lie extensions and groups of automorphisms of local fields] 90e:11179
 — Sur la ramification des groupes de Weil. (English summary) [On the ramification of Weil groups] 90g:11163
 Opolka, H. Ramifications of Weil-representations of local Galois groups. (see 90m:11193)
 Traversa, I. Grau, Artur Generating functions for the numbers of abelian extensions of a local field. 90m:11187

Items with secondary classifications in 11S15

- Gras, Georges (with Jaulent, Jean-François) Sur les corps de nombres réguliers. [On regular number fields] 90i:11128
 Greither, Cornelius Unramified Kummer extensions of prime power degree. 90i:11139
 Jaulent, Jean-François *see* Gras, Georges, 90i:11128
 Kahn, Bruno Sommes de Gauss attachées aux caractères quadratiques de petit conducteur. [Gauss sums attached to quadratic characters of small conductor] 90f:11069
 Nishioaka, Kumiko p -adic transcendental numbers. 90e:11099
 Shafarevich, I. R. Factors of decreasing central series. (Russian) 90e:20023
 Sigrist, François Le théorème de Burnside sur le comptage des orbites et quelques applications. [The Burnside theorem for counting orbits, and some applications] 90m:20003
 Vostokov, S. V. (with Zhukov, I. B.) Abelian semiramified extensions of a two-dimensional local field. (Russian) 90a:11147
 Zhukov, I. B. *see* Vostokov, S. V., 90a:11147

11S20 Galois theory

- Epkenhans, Martin Trace forms of normal extensions over local fields. 90m:11188
 Greither, Cornelius Unramified Kummer extensions of prime power degree. 90i:11139
 Jacob, Bill (with Ware, Roger) A recursive description of the maximal pro-2 Galois group via Witt rings. 90b:11127
 Jarden, Moshe Koch's classification of the primitive representations of a Galois group of a local field. (see 90m:11193)
 Mel'nikov, O. V. (with Sharomet, A. A.) The Galois group of a multidimensional local field of positive characteristic. (Russian) 90j:11131
 Qeyrut, J. Invariants équivariants de la forme trace. [Equivariant invariants of the trace form] 90j:11132

- Sharomet, A. A. *see* Mel'nikov, O. V., 90j:11131
 Ware, Roger *see* Jacob, Bill, 90b:11127

Items with secondary classifications in 11S20

- Cohen, Stephen D. Galois groups of trinomials. 90j:11118
 Haran, Dan (with Jarden, Moshe) The absolute Galois group of a pseudo p -adically closed field. 90e:12012
 Jarden, Moshe *see* Haran, Dan, 90e:12012
 Miyake, Katsuya (with Opolka, H.) Indices of central embedding problems and applications. 90e:12014
 Opolka, H. *see* Miyake, Katsuya, 90e:12014
 Wingberg, Kay Galois groups of Poincaré-type over algebraic number fields. 90h:11133
 Zimmermann, Karl Frederic Torsion points of generic formal groups defined over $\mathbb{Z}_p[[t_1, \dots, t_{h-1}]]$. 90m:14039

11S23 Integral representations

- Brinkhuis, J. Trace calculations. (see 90m:11193)

Items with secondary classifications in 11S23

- Becker, Eberhard (with Külshammer, Burkhard) The irreducible representations of the multiplicative group of a tame division algebra over a local field (following H. Koch and E.-W. Zink). (see 90m:11193)
 Everest, G. R. Root numbers—the tame case. (see 90m:11193)
 Fröhlich, Albrecht Tame representations and base change. (see 90m:11193)
 Külshammer, Burkhard *see* Becker, Eberhard, 90m:11193
 Malinin, D. A. Integral representations of p -groups over local fields. (Russian) 90m:20009
 Opolka, H. Ramifications of Weil-representations of local Galois groups. (see 90m:11193)
 Qeyrut, J. The functional equation s -factors. (see 90m:11193)
 Wingberg, Kay Representations of locally profinite groups. (see 90m:11193)

11S25 Galois cohomology [see also 12Gxx, 16A16]

Items with secondary classifications in 11S25

- Andrichuk, V. I. Some problems connected with Tate-Shafarevich pairing in elliptic curves over pseudo-local fields. (Ukrainian. Russian summary) 90j:11048
 Douai, Jean-Claude Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps locaux de dimension N . [The Tate-Poitou theorem for function fields of curves defined over N -dimensional local fields] 90m:11095
 Roux, Bernard Sur le groupe de Brauer d'un corps local à corps résiduel imparfait. [On the Brauer group of a local field with nonperfect residue field] 90e:12016
 Simons, Lloyd D. \mathbb{Z}_p -towers in Demuskin groups. 90h:20035

11S31 Class field theory; p -adic formal groups

- Kato, Kazuya Swan conductors for characters of degree one in the imperfect residue field case. 90g:11164
 Keating, Kevin Galois characters associated to formal A -modules. 90b:11128
 Laubie, F. Composition de séries formelles et corps de classes. [Composition of formal power series and class fields] 90m:11189
 Li, De Lang Formal groups and local class field theory. 90j:11133
 Mokrinskaya, R. P. A remark on a theorem of Lang. (Russian) (see 90h:20005)
 Morava, Jack Browder-Fröhlich symbols. 90m:11190
 Rosen, Michael I. (with Zimmermann, Karl Frederic) Galois representations associated to generic formal groups. 90m:11191
 Vostokov, S. V. (with Zhukov, I. B.) Abelian semiramified extensions of a two-dimensional local field. (Russian) 90a:11147
 Zhukov, I. B. *see* Vostokov, S. V., 90a:11147
 Zimmermann, Karl Frederic *see* Rosen, Michael I., 90m:11191

Items with secondary classifications in 11S31

- Abrashkin, V. A. Finite group schemes of period p over a discrete valuation ring. 90j:14057
 Ditters, E. J. (with Hoving, Simen J.) On the connected part of the covariant Tate p -divisible group and the ζ -function of the family of hyperelliptic curves $y^2 = 1 + \mu x^N$ modulo various primes. 90e:14047
 — On the classification of commutative formal group laws over p -Hilbert domains and a finiteness theorem for higher Hasse-Witt matrices. 90h:14062
 Fishman, V. M. On the structure of the Tate module. 90k:11073
 Hoving, Simen J. *see* Ditters, E. J., 90e:14047
 Hyodo, Osamu On variation of Hodge-Tate structures. 90i:14019
 Jarden, Moshe Koch's classification of the primitive representations of a Galois group of a local field. (see 90m:11193)
 Kato, Kazuya A generalization of class field theory. (Japanese) 90g:11080
 Keating, Kevin Lifting endomorphisms of formal A -modules. (see 14048)
 Lorenz, Martin On the numerical local Langlands conjecture. (see 90m:11193)
 Morava, Jack Forms of K -theory. 90e:55011
 Ota, Kaori On P -integrality of a formal group obtained from a hypergeometric function. 90e:14030
 Rosen, Michael I. (with Zimmermann, Karl Frederic) Torsion points of generic formal groups. 90d:14047
 Saito, Shuji Class field theory for two-dimensional local rings. 90h:11053
 Sen, Shankar The analytic variation of p -adic Hodge structure. 90b:11062
 Simons, Lloyd D. \mathbb{Z}_p -towers in Demuskin groups. 90h:20035
 Wintenberger, Jean-Pierre Motifs et ramification pour les points d'ordre fini des variétés abéliennes. [Motives and ramification for the points of finite order of abelian varieties] 90h:14063
 Yamagata, Shuji Endomorphism rings of formal A_0 -modules. 90k:14051
 Zimmermann, Karl Frederic Points of order p of generic formal groups. (French summary) 90a:14065

- Torsion points of generic formal groups defined over $Z_2[[t_1, \dots, t_{h-1}]]$. 90m:14039
 — see also Rosen, Michael L., 90d:14047

11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

- Fröhlich, Albrecht Tame representations and base change. (see 90m:11193)
 Gérardin, Paul (with Li, Wen-Ch'ing Winnie) Degree two monomial representations of local Weil groups. 90m:11192b
 — (with Li, Wen-Ch'ing Winnie) Identities on quadratic Gauss sums. 90m:11192a
 Henniart, Guy La conjecture de Langlands locale numérique pour $GL(n)$. (English summary) [The numerical local Langlands conjecture for $GL(n)$] 90f:11094
 — Preuve de la conjecture de Langlands locale numérique pour $GL(n)$. [Proof of the numerical local Langlands conjecture $GL(n)$] (see 90m:11193)
 Li, Wen-Ch'ing Winnie see Gérardin, Paul, 90m:11192a and 90m:11192b
 Lorenz, Martin On the numerical local Langlands conjecture. (see 90m:11193)
 (Ritter, Jürgen) see Representation theory and number theory in connection with the local Langlands conjecture, 90m:11193

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- Augsburg ★ Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

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- Representation Theory and Number Theory in Connection with the Local Langlands Conjecture ★ Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193
 Contemporary Mathematics ★ Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193
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Items with secondary classifications in 11S37

- Arthur, James The characters of supercuspidal representations as weighted orbital integrals. 90c:22052
 Becker, Eberhard (with Külshammer, Burkhard) The irreducible representations of the multiplicative group of a tame division algebra over a local field (following H. Koch and E.-W. Zink). (see 90m:11193)
 Bushnell, C. J. Gauss sums and supercuspidal representations of GL_n . (see 90m:11193)
 Corwin, Lawrence Characters of representations of D_n^* (tamely ramified case). (see 90m:11193)
 Gelbart, S. Recent results on automorphic L -functions. 90k:11066
 Gérardin, Paul (with Li, Wen-Ch'ing Winnie) Identities on degree two gamma factors. (see 90m:11193)
 Külshammer, Burkhard see Becker, Eberhard, (90m:11193)
 Kutzko, Phil (with Manderscheid, David) On intertwining operators for $GL_N(F)$, F a non-Archimedean local field. 90c:22054
 Li, Wen-Ch'ing Winnie see Gérardin, Paul, (90m:11193)
 Manderscheid, David see Kutzko, Phil, 90c:22054
 Opolka, H. Ramifications of Weil-representations of local Galois groups. (see 90m:11193)
 Queyruet, J. The functional equation ϵ -factors. (see 90m:11193)
 Rohlf, Jürgen Sequences of Eisenstein polynomials and arithmetic in local division algebras. (see 90m:11193)
 Tadić, M. Geometry of dual spaces of reductive groups (non-Archimedean case). 90c:22057
 Taylor, Martin J. Root numbers and the local Langlands conjecture. (see 90m:11193)
 Teitelbaum, Jeremy On Drinfeld's universal formal group over the p -adic upper half plane. 90j:11050
 Vignéras, Marie-France Correspondance modulaire galois-quaternions pour un corps p -adique. [The Galois-quaternion modular correspondence for a p -adic field] 90j:11041
 Watanabe, Takao Euler factors attached to unramified principal series representations. 90c:22058
 Zink, Ernst-Wilhelm U^1 -conjugacy classes in local division algebras. II. 90k:11158

11S40 Zeta functions and L -functions [see also 11M41, 19F27]

- Gérardin, Paul (with Li, Wen-Ch'ing Winnie) Identities on degree two gamma factors. (see 90m:11193)
 Kim, Hyun Kwang Unit theorems on algebraic tori. 90f:11095
 Li, Wen-Ch'ing Winnie see Gérardin, Paul, (90m:11193)
 Loeser, F. Fonctions zêta locales d'Igusa à plusieurs variables, intégration dans les fibres, et discriminants. [Igusa's local zeta functions in several variables, integration in fibers, and discriminants] 90m:11194
 Queyruet, J. The functional equation ϵ -factors. (see 90m:11193)
 Saisho, Junya q -analogue of Riemann's ζ -function and q -Euler numbers. 90d:11132
 Shirataki, Katsumi On generalized periods of cusp forms. 90b:11129
 Taylor, Martin J. Root numbers and the local Langlands conjecture. (see 90m:11193)
 Yager, Rodney I. Special values of L -functions and height two formal groups. 90f:11096

Items with secondary classifications in 11S40

- Brinkhuis, J. Trace calculations. (see 90m:11193)
 Bushnell, C. J. Gauss sums and supercuspidal representations of GL_n . (see 90m:11193)
 Conner, P. E. (with Yui, Noriko) The additive characters of the Witt ring of an algebraic number field. 90a:11130
 Corwin, Lawrence The unitary dual for the multiplicative group of arbitrary division algebras over local fields. 90d:22021
 Gekeler, Ernst-Ulrich Méthodes analytiques rigides dans la théorie arithmétique des corps de fonctions. [Rigid analytic methods in the arithmetic theory of function fields] 90a:11141
 Goss, David Fourier series, measures and divided power series in the theory of function fields. 90c:11138

- Gross, Benedict H. Local orders, root numbers, and modular curves. 90b:11053
 Hironaka, Yumiko (with Satō, Fumihiko) Spherical functions and local densities of alternating forms. 90c:11029
 Murase, Atsushi L -functions attached to Jacobi forms of degree n . I. The basic identity. 90k:11064
 Nohmi, Masaya On a convolution on the space of p -adic functions. 90k:11159
 Satō, Fumihiko see Hironaka, Yumiko, 90c:11029
 Travesa, Artur Generating functions for the numbers of abelian extensions of a local field. 90m:11187
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11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16A18, 16A39]

- Becker, Eberhard (with Külshammer, Burkhard) The irreducible representations of the multiplicative group of a tame division algebra over a local field (following H. Koch and E.-W. Zink). (see 90m:11193)
 Everest, G. R. Root numbers—the tame case. (see 90m:11193)
 Külshammer, Burkhard see Becker, Eberhard, (90m:11193)
 Li, Wen-Ch'ing Winnie On quadratic Gauss sums over local fields. 90k:11157
 Rohlf, Jürgen Sequences of Eisenstein polynomials and arithmetic in local division algebras. (see 90m:11193)
 Wilson, S. M. J. Principal orders and congruence Gauss sums. (see 90m:11193)
 Zink, Ernst-Wilhelm U^1 -conjugacy classes in local division algebras. II. 90k:11158

Items with secondary classifications in 11S45

- Brinkhuis, J. Trace calculations. (see 90m:11193)
 Corwin, Lawrence Characters of representations of D_n^* (tamely ramified case). (see 90m:11193)
 Fröhlich, Albrecht Tame representations and base change. (see 90m:11193)
 Hijikata, Hiroaki (with Pizer, Arnold K.; Shemanske, T.) Orders in quaternion algebras. 90d:11128
 Leep, David B. (with Tignol, J.-P.; Vast, N.) The level of division algebras over local and global fields. 90c:11038
 Lorenz, Martin On the numerical local Langlands conjecture. (see 90m:11193)
 Morandi, Pat Value functions on central simple algebras. 90c:16007
 Pizer, Arnold K. see Hijikata, Hiroaki; et al., 90d:11128
 Queyruet, J. The functional equation ϵ -factors. (see 90m:11193)
 Riehm, Carl R. The quadratic Schur subgroup over local and global fields. 90c:12003
 Sally, P. J., Jr. Matching and formal degrees of formal degrees of Galois over a p -adic field. (see 90m:11193)
 Shemanske, T. see Hijikata, Hiroaki; et al., 90d:11128
 Tignol, J.-P. see Leep, David B.; et al., 90c:11038
 Vast, N. see Leep, David B.; et al., 90c:11038
 Willems, W. Representations of certain group extensions. (see 90m:11193)

11S70 K -theory of local fields

- Fesenko, I. B. A generalized symbol in multidimensional local fields. (Russian) 90d:11133
 — K -groups of a multidimensional local field. 90c:11089

Items with secondary classifications in 11S70

- Saito, Shuji Class field theory for two-dimensional local rings. 90b:11053

11S75 Valuation theory

Items with secondary classifications in 11S75

- Häntler, M. see Steidl, Gabriele; et al., 90m:11154
 Steidl, Gabriele (with Häntler, M.; Tasche, Manfred) On a number-theoretic result of Zsigmondy in domains of quadratic integers. 90m:11154
 Tasche, Manfred see Steidl, Gabriele; et al., 90m:11154

11S80 Other analytic theory (analogues of beta and gamma functions, p -adic integration, etc.)

- Igusa, Jun-ichi b -functions and p -adic integrals. 90b:11140
 Kimura, Tatsuo Complex powers on p -adic fields and a resolution of singularities. 90f:11097
 Nohmi, Masaya On a convolution on the space of p -adic functions. 90k:11159
 Srinivasan, V. K. Some open problems in p -adic analysis. 90b:11130

Items with secondary classifications in 11S80

- Chekhov, L. O. A note on multiloop calculus in p -adic string theory. 90b:81140
 Childress, Nancy λ -invariants and Γ -transforms. 90m:11161
 Denef, J. Multiplicity of the poles of the Poincaré series of a p -adic subanalytic set. 90f:11089
 Dibag, I. Generalization of the von Staudt-Clausen theorem. 90g:11025
 Escassut, Alain Factorisation de Hensel pour les séries à coefficients analytiques. [Hensel factorization for series with analytic coefficients] 90c:32024
 Hloniek, Zvonimir (with Spector, Donald) p -adic string theories. 90b:81160
 Ihara, Yasutaka (with Kaneko, Masanobu; Yukinari, Atsushi) On some properties of the universal power series for Jacobi sums. 90d:11122
 Kaneko, Masanobu see Ihara, Yasutaka; et al., 90d:11122
 Kozuka, Kazuhito On two variable p -adic L -functions and a p -adic class number formula. 90g:11158
 — On a p -adic interpolating power series of the generalized Euler numbers. 90j:11020
 Morita, Yasuo A p -adic theory of hyperfunctions. II. 90g:32012
 van der Put, M. Uniformisation p -adique. [p -adic uniformization] 90c:11090

Ruelle, Ph. (with Thiran, E.; Versteegen, D.; Weyers, J.) Quantum mechanics on p -adic fields. 90k:81241

Spector, Donald see Hlousiek, Zvonimir, 90k:81160

Thiran, E. see Ruelle, Ph.; et al., 90k:81241

Versteegen, D. see Ruelle, Ph.; et al., 90k:81241

Vladimirov, V. S. (with Volovich, I. V.) p -adic quantum mechanics. 90k:81049

Volovich, I. V. see Vladimirov, V. S., 90k:81049

Weyers, J. see Ruelle, Ph.; et al., 90k:81241

Wilson, S. M. J. Principal orders and congruence Gauss sums. (see 90m:11193)

Yeung, Kit Ming On congruences for binomial coefficients. 90k:11143

Yukinari, Atsushi see Ihara, Yasutaka; et al., 90d:11122

11S85 Other nonanalytic theory

Manin, Yu. I. Reflections on arithmetical physics. 90m:11195

Sushchanskii, V. I. Standard subgroups of the isometry group of the metric space of p -adic integers. (Ukrainian. Russian summary) 90k:11160

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Colagrossi, Attilio (with Limongelli, Carla) Big numbers p -adic arithmetic: a parallel approach. 90f:11101

Limongelli, Carla see Colagrossi, Attilio, 90f:11101

11S99 None of the above, but in this section

Items with secondary classifications in 11S99

Baldassarri, F. Comparison theorems in algebraic geometry. (Italian. English summary) 90c:14011

Kahn, Bruno Sommes de Gauss attachées aux caractères quadratiques de petit conducteur. [Gauss sums attached to quadratic characters of small conductor] 90f:11069

Roy, Damien Sous-groupes minimaux de \mathbb{R}^n . (English summary) [Minimal subgroups of \mathbb{R}^n] 90a:11084

11Txx Finite fields and commutative rings (number-theoretic aspects)

11T06 Polynomials: irreducibility, factorization, distribution of values

Albis González, Víctor Samuel On a theorem of Möbius: elementary variations on the polynomial totality. 90c:11180

Beard, Jacob T. B., Jr. Bi-unitary perfect polynomials over $\text{GF}(q)$. 90c:11090

Brawley, J. V. (with Carlitz, L.) A test for additive decomposability of irreducibles over a finite field. 90j:11165

Carlitz, L. see Brawley, J. V., 90j:11165

Chou, Wan-Seng (with Gomez-Calderon, Javier; Mullen, Gary L.) Value sets of Dickson polynomials over finite fields. 90c:11181

Creutzburg, Reiner (with Tasche, Manfred) Parameter determination for complex number-theoretic transforms using cyclotomic polynomials. 90c:11182

Dejter, I. J. (with Rubio, Ivelisse) Monomial permutations with uniform cycle decomposition. 90m:11196

Eigenthaler, G. (with Nöbauer, Wilfried; Wiesenbauer, J.) Über Halbgruppen vertauschbarer Polynome. [On semigroups of commuting polynomials] 90b:11131

Fitzgerald, Robert W. (with Yucas, Joseph) On generating linear spans over $\text{GF}(p)$. 90d:11134

Gomez-Calderon, Javier A note on polynomials with minimal value set over finite fields. 90c:11183

— see also Chou, Wan-Seng; et al., 90c:11181

Kyuregyan, M. K. A new method for constructing irreducible polynomials over finite fields. (Russian. Armenian summary) 90f:11109

Lidl, R. see Matthews, Rex, 90b:11132

Lüneburg, Heinz On the number of irreducible factors of degree k dividing a given polynomial over $\text{GF}(q)$. 90j:11134

Matthews, Rex (with Lidl, R.) On generalized Rédei functions. 90b:11132

Moreno, Oscar On the existence of a primitive quadratic of trace 1 over $\text{GF}(p^m)$. 90b:11133

Mullen, Gary L. see Chou, Wan-Seng; et al., 90c:11181

Nöbauer, Rupert Rédei-Permutationen auf Restklassenringen $\mathbb{Z}/(m)$. (English summary) [Rédei permutations on the residue class rings $\mathbb{Z}/(m)$] 90c:11091

Nöbauer, Wilfried see Eigenthaler, G.; et al., 90b:11131

van Oorschot, P. C. (with Vanstone, S. A.) A geometric approach to root finding in $\text{GF}(q^m)$. 90c:11184

Rényai, Lajos Factoring polynomials modulo special primes. 90k:11161

Rubio, Ivelisse see Dejter, I. J., 90m:11196

Shoup, Victor New algorithms for finding irreducible polynomials over finite fields. 90j:11135

Sobirov, M. S. On the expandability of the polynomial $x^p - (x-1)^p - 1 \pmod{p}$. (Russian) 90j:11136

Tasche, Manfred see Creutzburg, Reiner, 90c:11182

Thiong Ly, J.-A. A deterministic algorithm for factorizing polynomials over extensions $\text{GF}(p^m)$ of $\text{GF}(p)$, p a small prime. 90j:11137

Vanstone, S. A. see van Oorschot, P. C., 90c:11184

Voloch, J. F. On the number of values taken by a polynomial over a finite field. 90j:11138

Wan, Da Qing An elementary proof of a theorem of Katz. 90a:11148

— Factoring multivariate polynomials over large finite fields. 90b:11141

— Permutation polynomials and resolution of singularities over finite fields. 90m:11197

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Aggarwal, M. L. see Shih, R. N., 90i:62100

Ash, David W. (with Blake, Ian F.; Vanstone, S. A.) Low complexity normal bases. 90m:12086

Bertaut, Erwin-Félix L'indicateur d'Euler et les opérations de symétrie cristalllographiques transitives dans les hyperspaces E^n . (English summary) [Euler's indicatrix and crystallographic transitive symmetry operations in the hyperspaces E^n] 90f:20068a

— Erratum: "Euler's indicatrix and crystallographic transitive symmetry operations in the hyperspaces E^n ". (French) 90f:20068b

Blake, Ian F. see Ash, David W.; et al., 90m:12086

Brawley, J. V. (with Schnibben, George E.) ★ Infinite algebraic extensions of finite fields. 90i:12004

Cantor, David G. On arithmetical algorithms over finite fields. 90f:11100

Evans, Ronald Residuacity of primes. 90m:11008

Fich, Faith E. (with Tompa, Martin) The parallel complexity of exponentiating polynomials over finite fields. 90c:12001

Nöbauer, Rupert Rédei-Funktionen und das Schursche Problem. [Rédei functions and the Schur problem] 90a:11151

Schnibben, George E. see Brawley, J. V., 90i:12004

Shih, R. N. (with Aggarwal, M. L.) Evaluation of $1 + x^i$ as power of x in Galois field. 90i:62100

Tompa, Martin see Fich, Faith E., 90c:12001

Vanstone, S. A. see Ash, David W.; et al., 90m:12086

Wolffmann, J. The number of points on certain algebraic curves over finite fields. 90k:11030

11T15 Difference sets; finite geometries

Moreno, Oscar (with Sotero, José) Computational approach to conjecture A of Golomb. 90m:11198

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Items with secondary classifications in 11T15

Ho, Chat Y. (with Pott, Alexander) Multiplier groups of planar difference sets and a theorem of Kantor. 90k:05036

Pott, Alexander see Ho, Chat Y., 90k:05036

Yamada, Mleko On a relation between a cyclic relative difference set associated with the quadratic extensions of a finite field and the Szekeres difference sets. 90a:05036

11T21 Cyclotomy, exponential sums; Gaussian and character sums

Adolphson, Alan (with Sperber, Steven) On the degree of the L -function associated with an exponential sum. 90b:11134

Han, Wen Bao Polynomials and primitive roots over finite fields. (Chinese) 90k:11142

Katre, S. A. Cyclotomic numbers and a conjecture of Snapper. 90c:11185

Lamprecht, E. Calculation of general Gauss sums and quadratic Gauss sums in finite rings. 90k:11162

Meixner, Thomas Eine Bemerkung zu den Kreisteilungspolynomen. [A remark on cyclotomic polynomials] 90b:11110

Perefontut, G. I. An estimate for a multidimensional sum with multiplicative character. (Russian) 90k:11163

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Sun, Qi On primitive roots in a finite field. (Chinese. English summary) 90c:11186

Yeung, Kit Ming On congruences for binomial coefficients. 90b:11143

Items with secondary classifications in 11T21

Adolphson, Alan On the distribution of angles of Kloosterman sums. 90k:11109

Bergeron, F. A story about computing with roots of unity. 90i:17001

Chalk, John H. H. Quelques remarques sur les congruences polynômes modulo p^n . (English summary) [Some remarks on polynomial congruences modulo p^n] 90a:11101

Evans, Ronald (with Root, William A.) Conjectures for Selberg character sums. 90c:11120

Jungnickel, Dieter (with Vanstone, S. A.) On primitive polynomials over finite fields. 90k:11164

Katz, Nicholas M. (with Laumon, Gérard) Erratum: "The Fourier transform and upper bounds for exponential sums" [Inst. Hautes Études Sci. Publ. Math. No. 62 (1985), 361–418; MR 87i:14017]. (French) 90i:14022

— An estimate for character sums. 90b:11081

Lachaud, Gilles Distribution of the weights of the dual of the Melas code. 90m:94044

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McGehee, O. Carruth Gaussian sums and harmonic analysis on finite fields. 90k:43012

Niemelä, Valtteri One-way functions. (Finnish. English summary) 90i:68032

Root, William A. see Evans, Ronald, 90c:11120

Tietäväinen, Almo A. Codes and character sums. 90j:94002

Vanstone, S. A. see Jungnickel, Dieter, 90k:11164

Wang, Yuan On small zeros of quadratic forms over finite fields. 90c:11022

Wolffmann, J. The weights of the orthogonal codes of certain cyclic codes or extended GOPPA codes. 90c:11188

Zannier, Umberto On the linear independence of roots of unity over finite extensions of \mathbb{Q} . 90j:11114

11T30 Structure theory

Jungnickel, Dieter (with Vanstone, S. A.) On primitive polynomials over finite fields. 90k:11164

— (with Menezes, Alfred J.; Vanstone, S. A.) On the number of self-dual bases of $\text{GF}(q^m)$ over $\text{GF}(q)$. 90i:11144

Menezes, Alfred J. see Jungnickel, Dieter; et al., 90i:11144

Mullin, R. C. (with Onyschuk, I. M.; Vanstone, S. A.; Wilson, Richard M.) Optimal normal bases in $\text{GF}(p^n)$. 90c:11092

- Onyschuk, I. M. *see* Mullin, R. C.; et al., 90c:11092
- Pincin, Antonio Bases for finite fields and a canonical decomposition for a normal basis generator. 90d:11135
- A new algorithm for multiplication in finite fields. 90c:11187
- Vanstone, S. A. *see* Mullin, R. C.; et al., 90c:11092; Jungnickel, Dieter; et al., 90c:11144 and 90c:11164
- Wilson, Richard M. *see* Mullin, R. C.; et al., 90c:11092
- Items with secondary classifications in 11T30
- Ash, David W. (with Blake, Ian F.; Vanstone, S. A.) Low complexity normal bases. 90m:12006
- Blake, Ian F. *see* Ash, David W.; et al., 90m:12006
- MacHale, Desmond Wedderburn's theorem revisited (again). 90c:12010
- Masol, V. I. Some applications of algorithms for constructing subspaces over a finite field. 90k:05015
- Shparlinskii, I. E. *see* Stepanov, S. A., 90j:12003
- Stepanov, S. A. (with Shparlinskii, I. E.) On the construction of a primitive normal basis of a finite field. (Russian) 90j:12003
- Sun, Qi On primitive roots in a finite field. (Chinese. English summary) 90c:11186
- Vanstone, S. A. *see* Ash, David W.; et al., 90m:12006

11T35 Matrices and determinants

- Items with secondary classifications in 11T35
- Rabin, Michael O. (with Vazirani, Vijay V.) Maximum matchings in general graphs through randomization. 90k:05114
- Vazirani, Vijay V. *see* Rabin, Michael O., 90k:05114

11T41 Equations

- Gao, Wei Dong On the Golomb conjecture. (Chinese. English summary) 90j:11139
- Sun, Qi The diagonal equation over a finite field F_p . (Chinese. English summary) 90c:11145

11T55 Polynomial domains over finite fields

- Knopfmacher, Arnold (with Knopfmacher, John) The exact length of the Euclidean algorithm in $F_q[X]$. 90d:11136
- Knopfmacher, John *see* Knopfmacher, Arnold, 90d:11136

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- Niederreiter, H. On a problem of Kodama concerning the Hasse-Witt matrix and the distribution of residues. 90a:11007

11T71 Algebraic coding theory; cryptography

- Buchmann, J. (with Williams, Hugh Cowie) A key-exchange system based on imaginary quadratic fields. 90j:11166
- Chudnovsky, David V. (with Chudnovsky, Gregory V.) Algebraic complexities and algebraic curves over finite fields. 90j:11167
- Chudnovsky, Gregory V. *see* Chudnovsky, David V., 90j:11167
- Gashkov, I. B. (with Sidel'nikov, V. M.) Codes that are connected with a group of linear-fractional transformations. 90d:11137
- Katsman, G. L. (with Tsfasman, M. A.) Spectra of algebro-geometric codes. (Russian) 90a:11149
- Koblitz, Neal Hyperelliptic cryptosystems. 90k:11165
- Lord, Eric A. Geometry of the Mathieu groups and Golay codes. 90j:11168
- Quebbemann, Heinz-Georg Cyclotomic Goppa codes. 90b:11135
- Scharlau, Winfried Selbstduale Goppa-Codes. [Self-dual Goppa codes] 90j:11146
- Shiozaki, Akira Decoding of redundant residue polynomial codes using Euclid's algorithm. 90b:11136
- Shokrollahi, Mohammad Amin Codes on Hermitian curves. 90b:11137
- Sidel'nikov, V. M. *see* Gashkov, I. B., 90d:11137
- Stichtenoth, Henning Self-dual Goppa codes. 90a:11150
- Sun, Qi (with Xiao, Rong) Two kinds of elliptic curves over F_q used to set up cryptosystems. (Chinese. English summary) 90m:11199
- Tsfasman, M. A. *see* Katsman, G. L., 90a:11149
- Williams, Hugh Cowie *see* Buchmann, J., 90j:11166
- Wolffmann, J. The weights of the orthogonals of certain cyclic codes or extended Goppa codes. 90c:11188
- New bounds on cyclic codes from algebraic curves. 90j:11140
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- Boyar, Joan Inferring sequences produced by a linear congruential generator missing low-order bits. 90j:94012
- Brickell, E. F. The cryptanalysis of knapsack cryptosystems. 90f:94026
- Cheng, Ying (with Sloane, N. J. A.) Codes from symmetry groups, and a [32, 17, 8] code. 90b:93026
- Clark, W. Edwin (with Lewis, Larry W.) Prime cyclic arithmetic codes and the distribution of power residues. 90f:94049
- Cohn, P. M. An algebraist looks at coding theory, or how to parse without punctuation. 90i:94016
- Driencourt, Yves (with Michon, Jean-François) Amelioration of the McWilliams-Sloane tables using geometric codes from curves with genus 1, 2 or 3 (following A. M. Barg, G. L. Katsman and M. A. Tsfasman). 90c:94030
- Evertse, Jan-Hendrik Linear structures in blockciphers. 90f:94027
- Fitzpatrick, Patrick Asymmetric cryptography. 90f:94028
- Forney, G. David, Jr. Coset codes. I. Introduction and geometrical classification. 90f:94051
- Coset codes. II. Binary lattices and related codes. 90f:94052

- Fürer, Martin (with Mehlhorn, Kurt) AT^2 -optimal Galois field multiplier for VLSI. 90i:68053
- Galli, Zvi (with Haber, Stuart; Yung, Moti) Minimum-knowledge interactive proofs for decision problems. 90i:68040
- Gashkov, I. B. (with Sidel'nikov, V. M.) Codes that are connected with the group of fractional-linear transformations. 90c:94027
- Girault, Marc *see* Vallée, Brigitte; et al., 90b:11144 and 90f:94035
- Golić, Jovan Dj. On the linear complexity of functions of periodic GF(q) sequences. 90c:94022
- Gordon, John Fast multiplicative inverse in modular arithmetic. 90k:11167
- Haber, Stuart *see* Galli, Zvi; et al., 90i:68040
- Hsueh, C. T. (with Wang, Ching Fa; Li, Chao Yen) Solving linear systems of determinant frequently zero over finite field GF(2). 90d:65086
- Ichijo, Takashi *see* Mizuno, Hirobumi; et al., 90a:94043
- Ikeda, Kohel *see* Mizuno, Hirobumi; et al., 90a:94043
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- Iorgov, Vasil (with Popov, Krasimir) Sloane's hypothetical code. (Bulgarian. English summary) 90g:94017
- Kasahara, Masao *see* Sakakibara, Katsumi; et al., 90i:94013
- Koch, Helmut On self-dual, doubly even codes of length 32. 90b:94048
- Lewis, Larry W. *see* Clark, W. Edwin, 90f:94049
- Li, Chao Yen *see* Hsueh, C. T.; et al., 90d:65086
- Matsumoto, Tsutomu (with Imai, Hideki) Public quadratic polynomial-tuples for efficient signature-verification and message-encryption. 90d:94008
- Mehlhorn, Kurt *see* Fürer, Martin, 90i:68053
- Michon, Jean-François Codes and curves. 90e:14020
- *see also* Driencourt, Yves, 90c:94030
- Mizuno, Hirobumi (with Ando, Kiyoshi; Ikeda, Kohel; Ichijo, Takashi) Code length and the zeta function. (Japanese. English summary) 90a:94043
- Niederreiter, H. Some new cryptosystems based on feedback shift register sequences. 90a:94039
- Niven, Ivan Coding theory applied to a problem of Ulam. 90f:68035
- Nöbauer, Rupert Cryptanalysis of a public-key cryptosystem based on Dickson-polynomials. (Russian summary) 90c:94024
- Ozeki, Michio On a class of self-dual ternary codes. 90m:94040
- Pei, Ding Yi *see* Wang, Charles C., 90m:11202
- Perret, Marc Families of codes exceeding the Varshamov-Gilbert bound. (French summary) 90j:14026
- Pless, Vera S. Extremal codes are homogeneous. (Not in MR)
- Popov, Krasimir *see* Iorgov, Vasil, 90g:94017
- Sakakibara, Katsumi (with Tokiwa, Kinichiro; Kasahara, Masao) Notes on q -ary expanded Reed-Solomon codes over GF(q^m). 90i:94013
- Sidel'nikov, V. M. *see* Gashkov, I. B., 90d:11137
- Skorobogatov, A. N. *see* Vladut, Serge G., 90f:94046
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- Stichtenoth, Henning A note on Hermitian codes over GF(q^2). 90c:94030
- Sun, Qi Some results in the application of the number theory to digital signal processing and public-key systems. 90i:11193
- Thiong, L. J. A. Symmetries of cyclic extended Goppa codes over F_q . 90b:94010
- Tietäväinen, Almo A. Incomplete sums and two applications of Deligne's result. 90i:11083
- Codes and character sums. 90j:94002
- Toffin, Philippe *see* Vallée, Brigitte; et al., 90b:11144 and 90f:94035
- Tokiwa, Kinichiro *see* Sakakibara, Katsumi; et al., 90i:94013
- Vallée, Brigitte (with Girault, Marc; Toffin, Philippe) How to break Okamoto's cryptosystem by reducing lattice bases. 90f:94035
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- Vladut, Serge G. (with Skorobogatov, A. N.) On the covering radius of long BCH codes. 90f:94046
- Wang, Charles C. (with Pei, Ding Yi) A VLSI design for computing exponentiations in GF(2^m) and its application to generate pseudorandom number sequences. 90m:11202
- Wang, Ching Fa *see* Hsueh, C. T.; et al., 90d:65086
- Ward, Harold N. Visible codes. 90m:94042
- Wirtz, Michael On the parameters of Goppa codes. 90c:94031
- Wolffmann, J. The weights of the dual code of the MELAS code over GF(3). 90c:94036
- Yung, Moti *see* Galli, Zvi; et al., 90i:68040

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- Agnew, G. B. (with Mullin, R. C.; Vanstone, S. A.) Fast exponentiation in GF(2^n). 90b:11138
- Mullin, R. C. *see* Agnew, G. B.; et al., 90b:11138
- Niederreiter, H. The probabilistic theory of linear complexity. 90d:11138
- Nöbauer, Rupert Rédei-Funktionen und das Schursche Problem. [Rédei functions and the Schur problem] 90a:11151
- Vanstone, S. A. *see* Agnew, G. B.; et al., 90b:11138
- Yang, Yan Ling Periodic sequences over a finite field F_p . (Chinese. English summary) 90j:11141
- Items with secondary classifications in 11T99
- Daiva, George I. *see* Litow, Bruce E., (90f:68010)
- Evans, Anthony B. Orthomorphisms of GF(q)^{*}. 90c:05039
- Harase, Takashi Algebraic elements in formal power series rings. 90a:13035
- Algebraic elements in formal power series rings. II. 90j:13019
- Litow, Bruce E. (with Daiva, George I.) $O(\log(n))$ parallel time finite field inversion. (*see* 90f:68010)
- Nikityuk, N. M. ★ Быстрые алгоритмы для координатных процессоров в поле Галуа GF(2^n) при множественности $1 \leq t \leq 3$. (Russian) [Fast algorithms for coordinate processors in the Galois field GF(2^n) for multiplicity $1 \leq t \leq 3$] 90b:11147

- ★ Быстрые алгоритмы для координатных процессоров в поле Галуа для множественности $t = 4.5$ и $t > 5$. (Russian) [Fast algorithms for coordinate processors in the Galois field for multiplicity $t = 4.5$ and $t > 5$] 90c:11096
- Shparlinskii, I. E. Distribution of values of recurrent sequences. 90k:11017

11Uxx Connections with logic

11U05 Decidability [see also 03B25]

Items with secondary classifications in 11U05

- Beukers, F. (with Manin, Yu. I.) Diophantine equations. 90b:11019
- Kim, Ki Hang (with Roush, Fred) Problems equivalent to rational Diophantine solvability. 90f:03048
- Manin, Yu. I. see Beukers, F., 90b:11019
- Pheidas, Thanases Hilbert's tenth problem for a class of rings of algebraic integers. 90b:12002
- Roush, Fred see Kim, Ki Hang, 90f:03048
- Sánchez-Mazas, Miguel Identification et analyse des classes d'équivalence de la logique modale par des invariants numériques. [Identification and analysis of equivalence classes of modal logic by numerical invariants] 90m:03025

11U09 Model theory

Items with secondary classifications in 11U09

- Denef, J. Multiplicity of the poles of the Poincaré series of a p -adic subanalytic set. 90f:11089
- Paris, Jeff B. see Wilkie, Alex J., 90k:03037
- Wilkie, Alex J. (with Paris, Jeff B.) On the existence of end extensions of models of bounded induction. 90k:03037

11U10 Nonstandard arithmetic [see also 03H15]

- Buzejeanu, Șerban Some less common recursive problems and their relation with mathematical logic. (Romanian) 90f:11098

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- Leth, Steven C. Some nonstandard methods in combinatorial number theory. 90c:03067
- Sequences in countable nonstandard models of the natural numbers. 90b:03054
- Paris, Jeff B. see Wilkie, Alex J., 90k:03037
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11U99 None of the above, but in this section

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- Lipshitz, L. D -finite power series. 90g:13032
- Matiyasevich, Yu. V. Diophantine complexity. (Russian. English summary) 90f:03078

11Yxx Computational number theory [see also 11-04]

Churchhouse, R. F. Some recent discoveries in number theory and analysis made by the use of a computer. 90c:11093

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- Allenby, R. B. J. T. (with Redfern, E. J.) ★ Introduction to number theory with computing. 90k:11001
- Chudnovsky, David V. (with Chudnovsky, Gregory V.) Use of computer algebra for Diophantine and differential equations. 90c:11096
- Chudnovsky, Gregory V. see Chudnovsky, David V., 90c:11096
- Redfern, E. J. see Allenby, R. B. J. T., 90k:11001

11Y05 Factorization

- Davis, James Avery (with Holdridge, Diane B.) Factorization of large integers on a massively parallel computer. 90b:11139
- Holdridge, Diane B. see Davis, James Avery, 90b:11139
- Kantze, Karlheinz Ein Reduktionsverfahren zur Erzeugung von Teilbarkeitsregeln. [A reduction procedure for the generation of divisibility rules] 90b:11140
- Le Brigand, D. Polynomial factorization using Brill-Noether algorithm. (French summary) 90m:11200
- Lenstra, A. K. Fast and rigorous factorization under the generalized Riemann hypothesis. 90a:11152
- Lioen, W. M. see to Riele, Herman; et al., 90b:11111
- Montgomery, Peter L. (with Silverman, Robert D.) An FFT extension to the $P-1$ factoring algorithm. 90b:11142
- to Riele, Herman (with Lioen, W. M.; Winter, Dik) Factoring with the quadratic sieve on large vector computers. 90b:11111
- Silverman, Robert D. see Montgomery, Peter L., 90b:11142
- Winter, Dik see to Riele, Herman; et al., 90b:11111

Items with secondary classifications in 11Y05

- Barozzi, Giulio Cesare Highly composite numbers. (Italian) 90b:11005
- Brillhart, John (with Lehmer, D. H.; Selfridge, J. L.; Tuckerman, Bryant; Wagstaff, S. S., Jr.) ★ Factorizations of $b^a \pm 1$. 90d:11009
- Langemyr, Lars (with McCallum, Scott) The computation of polynomial greatest common divisors over an algebraic number field. 90k:12001

- Lehmer, D. H. see Brillhart, John; et al., 90d:11009
- McCallum, Scott see Langemyr, Lars, 90k:12001
- Norton, G. H. Precise analyses of the right- and left-shift greatest common divisor algorithms for $GF(q)[x]$. 90b:12002
- Rickert, Neil W. Efficient reduction of quadratic forms. 90f:11049
- Rényai, Lajos Factoring polynomials modulo special primes. 90k:11161
- Selfridge, J. L. see Brillhart, John; et al., 90d:11009
- Thiong Ly, J.-A. A deterministic algorithm for factorizing polynomials over extensions $GF(p^m)$ of $GF(p)$, p a small prime. 90b:11137
- Tuckerman, Bryant see Brillhart, John; et al., 90d:11009
- Vallée, Brigitte Factorisation entière par génération quasi-uniforme de petits résidus quadratiques. (English summary) [Integer factoring with quasi-uniform generation of small quadratic residues] 90e:11017
- Wagstaff, S. S., Jr. see Brillhart, John; et al., 90d:11009

11Y11 Primality

- Di Porto, Adina (with Filippini, Piero) A probabilistic primality test based on the properties of certain generalized Lucas numbers. 90f:11099
- Filippini, Piero see Di Porto, Adina, 90f:11099
- Gurak, S. Cubic and biquadratic pseudoprimes of Lucas type. 90k:11166
- Ito, Hideji An elliptic Fermat test. 90g:11169
- Jammalamadaka, S. Rao (with Uppuluri, V. R. R.) Is p a prime number? Some probabilistic tests for primality. 90e:11189
- Kim, Su Hee (with Pomerance, Carl) The probability that a random probable prime is composite. 90e:11190
- Mihăilescu, Preda A primality test using cyclotomic extensions. 90b:11147
- Pintz, J. (with Steiger, W. L.; Szemerédi, Endre) Infinite sets of primes with fast primality tests and quick generation of large primes. 90b:11141
- Pomerance, Carl see Kim, Su Hee, 90e:11190
- Steiger, W. L. see Pintz, J.; et al., 90b:11141
- Szemerédi, Endre see Pintz, J.; et al., 90b:11141
- Uppuluri, V. R. R. see Jammalamadaka, S. Rao, 90e:11189
- Vasilenko, O. N. Current methods for testing for the primality of numbers. A survey. (Russian) 90a:11153

Items with secondary classifications in 11Y11

- Bateman, P. T. (with Selfridge, J. L.; Wagstaff, S. S., Jr.) The new Mersenne conjecture. 90c:11009
- see also Mullin, Albert A., 90f:11008
- Cox, David A. ★ Primes of the form $x^2 + ny^2$. 90m:11016
- Jaeschke, Gerhard The Carmichael numbers to 10^{12} . 90m:11018
- Löh, Günter Long chains of nearly doubled primes. 90e:11015
- Luo, Xue Dong A practical sieve algorithm for finding prime numbers. 90b:11007
- Mullin, Albert A. Letter to the editor: "The new Mersenne conjecture" [Amer. Math. Monthly 96 (1989), no. 2, 125–128; MR 90c:11009] by P. T. Bateman, J. L. Selfridge and S. S. Wagstaff, Jr. 90f:11008
- Parady, B. K. (with Smith, Joel F.; Zaranonello, Sergio E.) Largest known twin primes. 90f:11013
- Ribenboim, P. ★ The book of prime number records. 90g:11127
- Selfridge, J. L. see Bateman, P. T.; et al., 90c:11009 and Mullin, Albert A., 90f:11008
- Smith, Joel F. see Parady, B. K.; et al., 90f:11013
- Wagstaff, S. S., Jr. see Bateman, P. T.; et al., 90c:11009 and Mullin, Albert A., 90f:11008
- Zaranonello, Sergio E. see Parady, B. K.; et al., 90f:11013

11Y16 Algorithms; complexity

- Bailey, D. H. (with Ferguson, Helaman R. P.) Numerical results on relations between fundamental constants using a new algorithm. 90e:11191
- Bradford, R. J. (with Davenport, J. H.) Effective tests for cyclotomic polynomials. 90m:11201
- Cantor, David G. On arithmetical algorithms over finite fields. 90f:11100
- Chistov, A. L. The complexity of the construction of the ring of integers of a global field. 90g:11170
- Colagrossi, Attilio (with Limongelli, Carla) Big numbers p -adic arithmetic: a parallel approach. 90f:11101
- Davenport, J. H. see Bradford, R. J., 90m:11201
- Ferguson, Helaman R. P. see Bailey, D. H., 90e:11191
- Furst, Merrick L. (with Kannan, Ravi) Succinct certificates for almost all subset sum problems. 90b:11148
- Girault, Marc see Vallée, Brigitte; et al., 90k:11168
- Gordon, John Fast multiplicative inverse in modular arithmetic. 90k:11167
- Gu, Jia Chang (with Qian, Lin Jun) Some iterative algorithms for the construction of number-theoretic transforms and their FORTRAN programs. (Chinese. English summary) 90d:11139
- Itoh, Toshiya (with Tsujii, Shigeo) An efficient algorithm for deciding quadratic residuosity in finite fields $GF(p^m)$. 90b:11142
- Kannan, Ravi see Furst, Merrick L., 90b:11148
- Kakihara, Kenmei Euclidean type algorithm for multiplication modulo P . II. 90b:11143
- Limongelli, Carla see Colagrossi, Attilio, 90f:11101
- Marlowe, T. J. (with Paull, M. C.) Least-cost partition algorithms. 90b:11143
- Mastrovito, Edoardo D. VLSI designs for multiplication over finite fields $GF(2^m)$. 90b:11144
- Moore, Thomas E. Euclid's algorithm and Lamé's theorem on a microcomputer. (Not in MR)
- Paull, M. C. see Marlowe, T. J., 90b:11143
- Pei, Ding Yi see Wang, Charles C., 90m:11202
- Qian, Lin Jun see Gu, Jia Chang, 90d:11139
- Rényai, Lajos Zero divisors in quaternion algebras. 90f:11102
- Toffin, Philippe see Vallée, Brigitte; et al., 90k:11168

- Tsuji, Shigeo *see* Itoh, Toshiya, 90b:11142
- Valle, Brigitte (with Girault, Marc; Toffin, Philippe) How to guess t th roots modulo n by reducing lattice bases. 90b:11168
- La réduction des réseaux. Autour de l'algorithme de Lenstra, Lenstra, Lovász. (English summary) [Lattice reduction: the Lenstra-Lenstra-Lovász algorithm] 90b:11149
- Wang, Charles C. (with Pei, Ding Yi) A VLSI design for computing exponentiations in $GF(2^n)$ and its application to generate pseudorandom number sequences. 90m:11202
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- Alekseev, V. B. The complexity of matrix multiplication. A survey. (Russian) 90d:68030
- Bergeron, F. (with Berstel, J.; Briek, S.; Duboc, C.) Addition chains using continued fractions. 90i:68044
- Berstel, J. *see* Bergeron, F.; et al., 90i:68044
- Boyar, Jean Inferring sequences produced by a linear congruential generator missing low-order bits. 90g:94012
- Bradford, R. J. Hermite normal forms for integer matrices. 90m:15018
- Briek, S. *see* Bergeron, F.; et al., 90i:68044
- Char, Bruce W. (with Geddes, K. O.; Gonnnet, Gaston H.) GCDHEU: heuristic polynomial GCD algorithm based on integer GCD computation. 90g:68073
- Davida, George I. *see* Litow, Bruce E., 90f:68010
- Delmer, Francine (with Deshouillers, Jean-Marc) On the computation of $g(k)$ in Waring's problem. 90i:11109
- Deshouillers, Jean-Marc *see* Delmer, Francine, 90i:11109
- Duboc, C. *see* Bergeron, F.; et al., 90i:68044
- Erans, David J. (with Stojmenović, Ivan) On parallel computation of Voronoi diagrams. (Not in MR)
- Fich, Faith E. (with Tompa, Martin) The parallel complexity of exponentiating polynomials over finite fields. 90c:12001
- Geddes, K. O. *see* Char, Bruce W.; et al., 90g:68073
- Gonnnet, Gaston H. *see* Char, Bruce W.; et al., 90g:68073
- Grigor'ev, D. Ya. Complexity of deciding Tarski algebra. 90b:03054
- Gröger, Detlef Zur Division mit Rest auf Gleitkommarechnern. [On division with remainder on floating point computers] 90g:65070
- Håstad, J. (with Just, Bettina; Lagarias, J. C.; Schnorr, C.-P.) Polynomial time algorithms for finding integer relations among real numbers. 90g:11171
- Heintz, Joos On the computational complexity of polynomials and bilinear mappings. A survey. (see 90d:94001)
- Hsieh, C. T. (with Wang, Ching Fa; Li, Chao Yen) Solving linear systems of determinant frequently zero over finite field $GF(2)$. 90d:65086
- Johnson, Robert W. *see* Tollmieri, Richard; et al., 90e:65199
- Jozzavaričius, Algimantas Symbolic computation for Witt rings. 90m:11056
- Just, Bettina Integer relations among algebraic numbers. 90m:11109
- *see also* Håstad, J.; et al., 90g:11171
- Kaltofen, Erich (with Rolletschek, Heinrich) Computing greatest common divisors and factorizations in quadratic number fields. 90a:11154
- Karloff, Howard J. (with Ruzzo, Walter L.) The iterated mod problem. 90f:68062
- Knopfmacher, Arnold (with Knopfmacher, John) A binomial product representation for p -adic numbers. 90e:11097
- (with Knopfmacher, John) p -adic and non-Archimedean product representations. 90e:11098
- Knopfmacher, John *see* Knopfmacher, Arnold, 90e:11097 and 90e:11098
- Lagarias, J. C. *see* Håstad, J.; et al., 90g:11171
- Lankford, Dallas Nonnegative integer basis algorithms for linear equations with integer coefficients. 90c:68039
- Li, Chao Yen *see* Hsieh, C. T.; et al., 90d:65086
- Licktrig, Thomas A lower bound on the complexity of division in finite extension fields and inversion in quadratic alternative algebras. 90b:68040
- Litow, Bruce E. (with Davida, George I.) $O(\log(n))$ parallel time finite field inversion. (see 90f:68010)
- Lu, Chao *see* Tollmieri, Richard; et al., 90e:65199
- Moreno, Oscar (with Sotero, José) Computational approach to conjecture A of Golomb. 90m:11198
- Pincin, Antonio A new algorithm for multiplication in finite fields. 90e:11187
- Platz, J. (with Steiger, W. L.; Szemerédi, Endre) Infinite sets of primes with fast primality tests and quick generation of large primes. 90b:11141
- Rabin, Michael O. (with Vazirani, Vijay V.) Maximum matchings in general graphs through randomization. 90k:05114
- Rolletschek, Heinrich *see* Kaltofen, Erich, 90a:11154
- Rényai, Lajos Algorithms in algebra. (Hungarian) 90e:12005
- Ruzzo, Walter L. *see* Karloff, Howard J., 90f:68062
- Schnorr, C.-P. *see* Håstad, J.; et al., 90g:11171
- Selmer, Ernst S. On Shellsort and the Frobenius problem. 90i:68024
- Shoup, Victor New algorithms for finding irreducible polynomials over finite fields. 90j:11135
- Shparlinski, I. E. *see* Stepanov, S. A., 90j:12003
- Sotero, José *see* Moreno, Oscar, 90m:11198
- Steidl, Gabriele (with Tasche, Manfred) Index transforms for multidimensional DFTs and convolutions. 90m:94015
- Steiger, W. L. *see* Platz, J.; et al., 90b:11141
- Stepanov, S. A. (with Shparlinski, I. E.) On the construction of a primitive normal basis of a finite field. (Russian) 90j:12003
- Stojmenović, Ivan *see* Erans, David J., (Not in MR)
- Szemerédi, Endre *see* Platz, J.; et al., 90b:11141
- Tasche, Manfred *see* Steidl, Gabriele, 90m:94015
- Temperton, Clive Nesting strategies for prime factor FFT algorithms. 90f:65244
- Tollmieri, Richard (with Lu, Chao; Johnson, Robert W.) Modified Winograd FFT algorithm and its variants for transform size $N = p^k$ and their implementations. 90e:65199
- Tompa, Martin *see* Fich, Faith E., 90c:12001
- Vazirani, Vijay V. *see* Rabin, Michael O., 90k:05114

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Yang, Wan Quan A new algorithm for the rapid computation of the equal-size multidimensional Fermat number transform. (Chinese. English summary) 90b:65257

11Y35 Analytic computations

Stephens, A. J. (with Williams, Hugh Cowie) An open architecture number sieve. (see 90m:11003)

Williams, Hugh Cowie *see* Stephens, A. J., (90m:11003)

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Fung, Gilbert W. (with Williams, Hugh Cowie) Quadratic polynomials which have a high density of prime values. 90j:11090

Ishikawa, Hirofumi The distribution of the Hilbert modular type cusp forms of weight two and its statistical model. 90e:11066

Leng, Jing *see* Wang, Yi Qun, 90g:11119

Varga, Richard S. Scientific computation on some mathematical conjectures. 90k:00049

Wang, Yi Qun (with Leng, Jing) Plana's summation formula and the numerical calculation of the Riemann zeta function $\zeta(2k+1)$. (Chinese. English summary) 90g:11119

Williams, Hugh Cowie *see* Fung, Gilbert W., 90j:11090

11Y40 Algebraic number theory computations

Bergé, A.-M. (with Martinet, Jacques; Olivier, M.) The computation of sextic fields with a quadratic subfield. 90k:11169

Buchmann, J. (with Pohst, M.; von Schmattow, J.) On the computation of unit groups and class groups of totally real quartic fields. 90e:11192

— (with Sands, Jonathan W.; Williams, Hugh Cowie) p -adic computation of real quadratic class numbers. 90k:11112

Creutzburg, Reiner (with Tasche, Manfred) Number-theoretic transforms of prescribed length. (see 90i:68007)

Ford, David J. (with McKay, John) Computation of Galois groups from polynomials over the rationals. 90h:11113

Geddes, K. O. (with Gonnnet, Gaston H.; Smedley, Trevor J.) Heuristic methods for operations with algebraic numbers (extended abstract). (see 90i:00005)

Gonnnet, Gaston H. *see* Geddes, K. O.; et al., (90i:00005)

Kaltofen, Erich (with Rolletschek, Heinrich) Computing greatest common divisors and factorizations in quadratic number fields. 90a:11154

Mininet, Jacques *see* Bergé, A.-M.; et al., 90k:11169

McKay, John *see* Ford, David J., 90h:11113

Olivier, M. *see* Bergé, A.-M.; et al., 90k:11169

Pohst, M. *see* Buchmann, J.; et al., 90e:11192

Rolletschek, Heinrich *see* Kaltofen, Erich, 90a:11154

Sands, Jonathan W. *see* Buchmann, J.; et al., 90k:11112

von Schmattow, J. *see* Buchmann, J.; et al., 90e:11192

Smedley, Trevor J. *see* Geddes, K. O.; et al., (90i:00005)

Sun, Qi Some results in the application of the number theory to digital signal processing and public-key systems. 90e:11193

Tasche, Manfred *see* Creutzburg, Reiner, (90i:68007)

Williams, Hugh Cowie *see* Buchmann, J.; et al., 90k:11112

Items with secondary classifications in 11Y40

Bradford, R. J. (with Davenport, J. H.) Effective tests for cyclotomic polynomials. 90m:11201

Buchmann, J. (with Pohst, M.) On the complexity of computing class groups of algebraic number fields. 90m:11168

— (with Williams, Hugh Cowie) On the computation of the class number of an algebraic number field. 90a:11128

— (with Pethő, Attila) Computation of independent units in number fields by Dirichlet's method. 90e:11162

Chistov, A. L. The complexity of the construction of the ring of integers of a global field. 90j:11170

Collins, George E. (with Johnson, Jeremy R.) The probability of relative primality of Gaussian integers. 90m:11165

Creutzburg, Reiner (with Steidl, Gabriele) Number-theoretic transforms in rings of cyclotomic integers. (German and Russian summaries) 90i:11117

— (with Tasche, Manfred) Parameter determination for complex number-theoretic transforms using cyclotomic polynomials. 90e:11182

Davenport, J. H. *see* Bradford, R. J., 90m:11201

Dür, Arne On computing the canonical form for a binary form of odd degree. 90i:11042

Friedman, Eduardo Some comments on the Cohen-Lenstra conjecture. (Spanish summary) 90c:11166

Fung, Gilbert W. (with Williams, Hugh Cowie) On the computation of a table of complex cubic fields with discriminant $D > -10^9$. 90m:11155

Gaal, István (with Schulte, N.) Computing all power integral bases of cubic fields. 90b:11108

Johnson, Jeremy R. *see* Collins, George E., 90m:11165

Just, Bettina Integer relations among algebraic numbers. 90e:11154

Koblitz, Neal Hyperelliptic cryptosystems. 90k:11165

Leutbecher, Armin (with Niklasch, Gerhard) On cliques of exceptional units and Lenstra's construction of Euclidean fields. 90i:11123

- Müller, Hans Helmut (with Ströher, Harald; Zimmer, Horst G.) Complete determination of all torsion groups of elliptic curves with integral absolute invariant over quadratic and pure cubic fields. 90m:11066
- Niklasch, Gerhard see Leutbecher, Armin, 90i:11123
- Oriat, Bernard Groupes des classes d'idéaux des corps quadratiques réels $Q(d^{1/2})$, $1 < d < 24572$. [Ideal class groups of the real quadratic fields $Q(d^{1/2})$, $1 < d < 24572$] 90e:11167a
- Groupes des classes d'idéaux des corps quadratiques imaginaires $Q(d^{1/2})$, $-24572 < d < 0$. [Ideal class groups of the imaginary quadratic fields $Q(d^{1/2})$, $-24572 < d < 0$] 90e:11167b
- Pethő, Attila see Buchmann, J., 90e:11162
- Pohst, M. see Buchmann, J., 90m:11168
- Salto, Michio (with Wada, Hideo) Tables of ideal class groups of real quadratic fields. 90a:11122
- Schulte, N. see Gaál, István, 90b:11108
- Steidl, Gabriele see Creutzburg, Reiner, 90i:11117
- Stephens, A. J. (with Williams, Hugh Cowie) Computation of real quadratic fields with class number one. 90b:11106
- Ströher, Harald see Müller, Hans Helmut; et al., 90m:11086
- Tasche, Manfred see Creutzburg, Reiner, 90i:11182
- Wada, Hideo see Salto, Michio, 90a:11122
- Williams, Hugh Cowie see Buchmann, J., 90e:11128; Stephens, A. J., 90b:11106 and Fung, Gilbert W., 90m:11155
- Zimmer, Horst G. see Müller, Hans Helmut; et al., 90m:11086

11Y50 Computer solution of Diophantine equations

- Brinkov, Valentin E. Effective algorithms for solving a broad class of linear Diophantine equations in nonnegative integers. (Bulgarian. English summary) 90i:11150
- Churchhouse, R. F. Presidential address: mathematics and computers. 90d:11140
- Claassen, Michael (with Fortenbacher, Albrecht) Efficient solution of linear Diophantine equations. 90i:11151
- Fortenbacher, Albrecht see Claassen, Michael, 90i:11151
- Girault, Marc see Vallée, Brigitte; et al., 90b:11144
- Iséki, Kiyoshi Some Diophantine equations from experimental number theory. 90m:11203a
- Errata to the paper: "Some Diophantine equations from experimental number theory". 90m:11203b
- On equations $2x^3 + x^2 + A = \square$ from experimental number theory. 90m:11204
- Toffin, Philippe see Vallée, Brigitte; et al., 90b:11144
- Vallée, Brigitte (with Girault, Marc; Toffin, Philippe) Comment deviner les racines i -èmes modulo n en réduisant des réseaux. [How to determine the i th roots modulo n by lattice reduction] 90b:11144
- de Weger, B. M. M. ★ Algorithms for Diophantine equations. 90m:11205

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- Cook, Roger J. Computations for additive Diophantine equations: pairs of quintic congruences. II. 90b:11030
- Iséki, Kiyoshi Integral solutions of $x^3 + y^6 = z^2$ and related equations. 90m:11043a
- Errata to the paper: "Integral solutions of $x^3 + y^6 = z^2$ and related equations". 90m:11043b
- Kramarz, G. see Zagier, Don, 90d:11072
- Pethő, Attila On the representation of 1 by binary cubic forms with positive discriminant. 90k:11027
- Shioda, Tetsuji The Galois representation of type E_4 arising from certain Mordell-Weil groups. 90f:11037
- Tanner, Jonathan W. (with Wagstaff, S. S., Jr.) New bound for the first case of Fermat's last theorem. 90b:11028
- Wagstaff, S. S., Jr. see Tanner, Jonathan W., 90b:11028
- de Weger, B. M. M. Erratum: "Solving exponential Diophantine equations using lattice basis reduction algorithms" [J. Number Theory 26 (1987), no. 3, 325-367; MR 88k:11097]. 90a:11040
- Zagier, Don (with Kramarz, G.) Numerical investigations related to the L -series of certain elliptic curves. 90d:11072

11Y55 Calculation of integer sequences

- Cull, Paul (with Holloway, James L.) Computing Fibonacci numbers quickly. 90k:11170
- Erdős, Paul (with Riesel, Hans) On admissible constellations of consecutive primes. 90b:11145
- Holloway, James L. see Cull, Paul, 90k:11170
- Iséki, Kiyoshi Palindromic prime numbers from experimental number theory. 90i:11094
- Palindromic prime numbers from experimental number theory. II. 90i:11095
- Riesel, Hans see Erdős, Paul, 90b:11145

Items with secondary classifications in 11Y55

- Alon, Noga (with Maass, Wolfgang) Meanders and their applications in lower bounds arguments. 90b:68047
- Kiriya, Hiroshi see Origuchi, Tadashi; et al., 90b:11026
- Maass, Wolfgang see Alon, Noga, 90b:68047
- Matsuoka, Yoshio see Origuchi, Tadashi; et al., 90b:11026
- Nagata, Shuro On computations of partial sums of binomial coefficients and related numbers. 90j:11019
- Origuchi, Tadashi (with Kiriya, Hiroshi; Matsuoka, Yoshio) A table of the explicit formulas for the sums of powers $S_p(n) = \sum_{k=1}^n k^p$ for $p = 1(1)61$. II. 90g:11026
- Orłowski, Marian (with Pachter, M.) An algorithm for the determination of a longest increasing subsequence in a sequence. 90g:68053
- Pachter, M. see Orłowski, Marian, 90g:68053
- Protasi, M. (with Talamo, Maurizio) On the number of arithmetical operations for finding Fibonacci numbers. 90g:68069

- Shallit, Jeffrey A generalization of automatic sequences (extended abstract). (see 90i:68014)
- Stephens, A. J. (with Williams, Hugh Cowie) An open architecture number sieve. (see 90m:11063)
- Talamo, Maurizio see Protasi, M., 90g:68069
- Williams, Hugh Cowie see Stephens, A. J., (90m:11063)

11Y60 Evaluation of constants

- Bailey, D. H. see Borwein, J. M.; et al., 90d:11143
- Bao, Na Euler's constant and Euler's formula. (Chinese) 90b:11114
- Bernstein, B. (with Rogers, D. G.) A sum suggested by rational approximations to π . 90d:11141
- Borwein, J. M. (with Borwein, P. B.) Ramanujan's rational and algebraic series for $1/\pi$. 90f:11103
- (with Borwein, P. B.) Explicit Ramanujan-type approximations to π of high order. 90d:11142
- (with Borwein, P. B.; Bailey, D. H.) Ramanujan, modular equations, and approximations to π , or How to compute one billion digits of π . 90d:11143
- Borwein, P. B. see Borwein, J. M., 90d:11142; 90d:11143 and 90f:11103
- Chudnovsky, David V. (with Chudnovsky, Gregory V.) The computation of classical constants. 90m:11206
- Chudnovsky, Gregory V. see Chudnovsky, David V., 90m:11206
- Hurley, Donal Recent computations of π . 90i:11194
- Rogers, D. G. see Bernstein, B., 90d:11141
- Trier, P. E. π revisited. 90e:11195

Items with secondary classifications in 11Y60

- Grayson, Daniel R. The arithogeometric mean. 90g:11071
- Kirschenhofer, P. (with Prodinger, H.; SchoiBengeier, J.) Zur Auswertung gewisser numerischer Reihen mit Hilfe modularer Funktionen. (English summary) [On evaluating certain numerical series with the aid of modular functions] 90j:11057
- Prodinger, H. see Kirschenhofer, P.; et al., 90j:11057
- SchoiBengeier, J. see Kirschenhofer, P.; et al., 90j:11057

11Y65 Continued fraction calculations

- Chen, Wen Chin see Chung, Kuo Liang; et al., 90m:11207
- Chung, Kuo Liang (with Chen, Wen Chin; Lin, Feng Ch'ing) Fast computation of periodic continued fractions. 90m:11207
- Håstad, J. (with Just, Bettina; Lagarias, J. C.; Schnorr, C.-P.) Polynomial time algorithms for finding integer relations among real numbers. 90g:11171
- Just, Bettina see Håstad, J.; et al., 90g:11171
- Lagarias, J. C. see Håstad, J.; et al., 90g:11171
- Lin, Feng Ch'ing see Chung, Kuo Liang; et al., 90m:11207
- Schnorr, C.-P. see Håstad, J.; et al., 90g:11171
- Yokoo, Hidetoshi An efficient representation of the integers for the distribution of partial quotients over the continued fractions. 90b:11146

Items with secondary classifications in 11Y65

- Zagier, Don On an approximate identity of Ramanujan. 90e:11010

11Y70 Values of arithmetic functions; tables

Items with secondary classifications in 11Y70

- Erdős, Paul (with Riesel, Hans) On admissible constellations of consecutive primes. 90b:11145
- Massias, Jean-Pierre (with Nicolas, Jean-Louis; Robin, Guy) Effective bounds for the maximal order of an element in the symmetric group. 90i:11139
- Nicolas, Jean-Louis see Massias, Jean-Pierre; et al., 90i:11139
- Riesel, Hans see Erdős, Paul, 90b:11145
- Robin, Guy see Massias, Jean-Pierre; et al., 90i:11139

11Y99 None of the above, but in this section

- Graci, Craig (with Narayan, Jack; Odendahl, Randy) Bunny numerics. A number theory microworld. 90e:11196
- Iséki, Kiyoshi Special palindromic prime numbers. 90a:11155
- Lovász, László Geometry of numbers: an algorithmic view. 90g:11172
- Narayan, Jack see Graci, Craig; et al., 90e:11196
- Nikityuk, N. M. ★ Быстрые алгоритмы для координатных процессоров в поле Галуа $GF(2^m)$ при множественности $1 \leq t \leq 3$. (Russian) [Fast algorithms for coordinate processors in the Galois field $GF(2^m)$ for multiplicity $1 \leq t \leq 3$] 90b:11147
- ★ Быстрые алгоритмы для координатных процессоров в поле Галуа для множественности $t = 4, 5$ и $t > 5$. (Russian) [Fast algorithms for coordinate processors in the Galois field for multiplicity $t = 4, 5$ and $t > 5$] 90c:11096
- Odendahl, Randy see Graci, Craig; et al., 90e:11196
- Pankrat'ev, E. V. Factorization of polynomials of one variable. (Russian) 90i:11197
- Wolf, Marek Multifractality of prime numbers. 90b:11115
- Items with secondary classifications in 11Y99
- Agnew, G. B. (with Mullin, R. C.; Vanstone, S. A.) Fast exponentiation in $GF(2^n)$. 90b:11138
- Cantor, David G. On arithmetical algorithms over finite fields. 90f:11100
- Cohn, Harvey Computer algebra and the Hilbert modular equation. 90i:11065
- Henniart, Guy (with Mestre, J.-F.) Moyenne arithmético-géométrique p -adique. (English summary) [The p -adic arithmetic-geometric mean] 90g:11075
- Hermans, Arnold Verschlüsselung und Entschlüsselung von Nachrichten. [Coding and decoding of information] 90f:94030
- Mestre, J.-F. see Henniart, Guy, 90g:11075

- Mullin, R. C. (with Onyszchuk, I. M.; Vanstone, S. A.; Wilson, Richard M.) Optimal normal bases in $GF(p^n)$. 90c:11092
 — see also Agnew, G. B.; et al., 90b:11138
 Niederreiter, H. The probabilistic theory of linear complexity. 90d:11138
 Onyszchuk, I. M. see Mullin, R. C.; et al., 90c:11092
 Percus, J. K. see Percus, Ora E., 90c:65013
 Percus, Ora E. (with Percus, J. K.) Long range correlations in linear congruential generators. 90c:65013
 Qiu, Yong Ping A matrix method and flow chart for finding greatest common divisors. (Chinese) 90g:11003
 Vanstone, S. A. see Agnew, G. B.; et al., 90b:11138 and Mullin, R. C.; et al., 90c:11092
 Wilson, Richard M. see Mullin, R. C.; et al., 90c:11092

12-XX Field theory and polynomials

12-01 Elementary exposition; textbooks

- Boja, N. (with Dăianu, Dan) ★ Elemente algebre și topologie de teoria corpurilor. (Romanian) [Algebraic and topological elements of field theory] 90g:12001
 Dăianu, Dan see Boja, N., 90g:12001
 Endler, Otto ★ Teoria dos corpos. (Portuguese) [Field theory] 90c:12001
 (Galois, Évariste) see Stewart, Ian, 90j:12001
 Karpilovsky, Gregory ★ Field theory. 90c:12001
 Stewart, Ian ★ Galois theory. 90j:12001

Items with secondary classifications in 12-01

- Barbeau, E. J. ★ Polynomials. 90f:12001
 Burton, David M. ★ Abstract algebra. 90m:00004
 Carrega, Jean-Claude ★ Théorie des corps. (French) [Theory of fields] 90b:01001
 (Cauchy, Augustin) see Burton, David M., 90m:00004
 Cayley, Arthur see Burton, David M., 90m:00004
 (Galois, Évariste) see Burton, David M., 90m:00004
 Gårding, Lars (with Tambour, Torbjörn) ★ Algebra for computer science. 90b:00003
 Jacobson, Nathan ★ Basic algebra. II. 90m:00007
 Kim, Myong-Hi Topological complexity of a root finding algorithm. 90m:65058
 Möbius, Michael Das Theorem von Sturm und seine (Wieder-)Entdeckung für den Mathematikunterricht. [Sturm's theorem and its (re-)discovery for the teaching of mathematics] 90k:12002
 Nagao, Hiroshi ★ Daisugaku. (Japanese) [Algebra] 90b:00001
 (Noether, Emmy) see Burton, David M., 90m:00004
 Pieper, Herbert ★ Die komplexen Zahlen. (German) [The complex numbers] 90d:12002
 (Reid, Miles) see Shafarevich, I. R., 90k:00010
 Shafarevich, I. R. ★ Noțiunile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] 90k:00009
 — ★ Algebra. I. 90k:00010
 (Spircu, T.) see Shafarevich, I. R., 90k:00009
 Tambour, Torbjörn see Gårding, Lars, 90b:00003

12-02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 12-02

- Karpilovsky, Gregory ★ Field theory. 90c:12001
 Nishioke, Keiji ★ Daisitoki bibun hōtōshiki no ippankai—bibun daishi nyūmon. (Japanese) [General solutions of algebraic differential equations—an introduction to differential algebra] 90a:12016

12-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 12-03

- Bulycheva, M. G. see Petrova, S. S., 90c:01022
 Gross, Benedict H. (with Tate, J.) Commentary on algebra. 90m:01035
 al-Khwārizmī, Muḥammad ibn Mūsā ★ The algebra of Mohammed ben Musa. 90m:01006
 (Newton, I.) see Petrova, S. S., 90c:01022
 Petrova, S. S. (with Bulycheva, M. G.) From the history of the method of the Newton polygon. (Russian) 90c:01022
 (Rosen, Frederick) see al-Khwārizmī, Muḥammad ibn Mūsā, 90m:01006
 Tate, J. see Gross, Benedict H., 90m:01035

12-04 Explicit machine computation and programs (not the theory of computation or programming)

- Ben-Or, Michael (with Feig, Ephraim; Kozen, Dexter; Tiwari, Prasoön) A fast parallel algorithm for determining all roots of a polynomial with real roots. 90a:12002
 Carnicer, J. M. (with Gasca, M.) Evaluation of multivariate polynomials and their derivatives. 90k:12001
 Czapor, S. R. Solving algebraic equations via Buchberger's algorithm. 90m:12001
 Davenport, J. H. Algebraic computations and structures. 90c:12002
 Feig, Ephraim see Ben-Or, Michael; et al., 90a:12002
 Fitch, Faith E. (with Tompa, Martin) The parallel complexity of exponentiating polynomials over finite fields. 90c:12001
 Gasca, M. see Carnicer, J. M., 90k:12001

- Kozen, Dexter see Ben-Or, Michael; et al., 90a:12002
 Kyrkchiev, Nikolai V. see Markov, Svetoslav M., 90c:12004
 Langemyr, Lars (with McCallum, Scott) The computation of polynomial greatest common divisors over an algebraic number field. 90k:12001
 Lidl, R. (with Matthews, Rex) GALOIS: an algebra microcomputer package. 90a:12003
 Liu, Zhao Jun An algorithm for decomposing high degree polynomials. 90c:12003
 Markov, Svetoslav M. (with Kyrkchiev, Nikolai V.) A method for solving algebraic equations. 90c:12004
 Matthews, Rex see Lidl, R., 90a:12003
 McCallum, Scott see Langemyr, Lars, 90k:12001
 Norton, G. H. Precise analyses of the right- and left-shift greatest common divisor algorithms for $GF(q)[x]$. 90b:12002
 Rónyai, Lajos Algorithms in algebra. (Hungarian) 90c:12005
 Tiwari, Prasoön see Ben-Or, Michael; et al., 90a:12002
 Tompa, Martin see Fitch, Faith E., 90c:12001

Items with secondary classifications in 12-04

- Alonso, M. E. (with Luengo, I.; Raimondo, M.) An algorithm on quasi-ordinary polynomials. 90j:12004
 Arnborg, Stefan (with Feng, Huichun) Algebraic decomposition of regular curves. 90a:68042
 Averbuch, Amir (with Galil, Zvi; Winograd, Shmuel) Classification of all the minimal bilinear algorithms for computing the coefficients of the product of two polynomials modulo a polynomial. I. The algebra $G[u]/(Q(u)^l)$, $l > 1$. 90b:68036
 Bocharov, A. V. (with Bronshtein, M. L.) Efficiently implementing two methods of the geometrical theory of differential equations: an experience in algorithm and software design. 90j:65002
 Bronshtein, M. L. see Bocharov, A. V., 90j:65002
 Char, Bruce W. (with Geddes, K. O.; Gonnet, Gaston H.) GCDHEU: heuristic polynomial GCD algorithm based on integer GCD computation. 90g:68073
 Chistov, A. L. Algorithms of polynomial complexity for computational problems in the theory of algebraic curves. (Russian. English summary) 90m:14001
 Chudnovsky, David V. (with Chudnovsky, Gregory V.) On expansion of algebraic functions in power and Puiseux series. I. 90d:68031a
 — (with Chudnovsky, Gregory V.) On expansion of algebraic functions in power and Puiseux series. II. 90d:68031b
 Chudnovsky, Gregory V. see Chudnovsky, David V., 90d:68031a and 90d:68031b
 Duval, Dominique Rational Puiseux expansions. 90c:14001
 Feng, Huichun see Arnborg, Stefan, 90a:68042
 Ford, David J. (with McKay, John) Computation of Galois groups from polynomials over the rationals. 90b:11113
 Galil, Zvi see Averbuch, Amir; et al., 90b:68036
 Geddes, K. O. see Char, Bruce W.; et al., 90g:68073
 Girault, Marc see Vallée, Brigitte; et al., 90b:11144
 Gonnet, Gaston H. see Char, Bruce W.; et al., 90g:68073
 Gröter, D. Yu. Complexity of decision for the first-order theory of real-closed fields. (Russian) 90k:03007
 Gutiérrez, Jaime (with Recio Muñiz, Tomás J.; Ruiz de Velasco y Bellas, Carlos) Polynomial decomposition algorithm of almost quadratic complexity. (see 90d:94002)
 Kasahara, Masao see Morii, Masakatsu; et al., 90m:94038
 Le Brigand, D. Polynomial factorization using Brill-Noether algorithm. (French summary) 90m:11200
 Liu, Zhao Jun A method of isolating complex roots of polynomials—an application of Wu-Ritt principle. (Chinese summary) 90j:65072
 Luengo, I. see Alonso, M. E.; et al., 90j:12004
 Malle, Gunter Polynomials with Galois groups $\text{Aut}(M_{21})$, M_{22} , and $\text{PSL}_3(F_4) : 2$ over \mathbb{Q} . 90b:12008
 McKay, John Advances in computational Galois theory. (see 90m:00036)
 — see also Ford, David J., 90b:11113
 Morii, Masakatsu (with Kasahara, Masao; Whiting, Douglas L.) Efficient bit-serial multiplication and the discrete-time Wiener-Hopf equation over finite fields. 90m:94038
 Muller, Jean-Michel see Siebert-Roch, Françoise, 90m:68070
 Pankrat'ev, E. V. Factorization of polynomials of one variable. (Russian) 90c:11197
 Plotkin, B. I. Galois theory of databases. 90i:68029
 Raimondo, M. see Alonso, M. E.; et al., 90j:12004
 Recio Muñiz, Tomás J. see Gutiérrez, Jaime; et al., (90d:94002)
 Renegar, James On the worst-case arithmetic complexity of approximating zeros of systems of polynomials. 90j:68021
 Robbiano, Lorenzo Introduction to the theory of Gröbner bases. 90a:13003
 Rónyai, Lajos Zero divisors in quaternion algebras. 90f:11102
 Ruiz de Velasco y Bellas, Carlos see Gutiérrez, Jaime; et al., (90d:94002)
 Sakalis, Takis Signs of algebraic numbers. 90m:12004
 Siebert-Roch, Françoise (with Muller, Jean-Michel) VLSI manipulation of polynomials. 90m:68070
 Sturmfels, Bernd Computing final polynomials and final syzygies using Buchberger's Gröbner bases method. 90d:13019
 Toffin, Philippe see Vallée, Brigitte; et al., 90b:11144
 Topmou, V. L. Reducing systems of linear differential equations to a passive form. 90j:12017
 Vallbouze, Annick Fonctions symétriques et changements de bases. (English summary) [Symmetric functions and changes of basis] 90m:05006
 Vallée, Brigitte (with Girault, Marc; Toffin, Philippe) Comment deviner les racines l -ièmes modulo n en réduisant des réseaux. [How to determine the l th roots modulo n by lattice reduction] 90b:11144
 Wan, Da Qing Factoring multivariate polynomials over large finite fields. 90b:11141
 Whiting, Douglas L. see Morii, Masakatsu; et al., 90m:94038
 Winkler, Franz A p -adic approach to the computation of Gröbner bases. 90m:68071
 Winograd, Shmuel see Averbuch, Amir; et al., 90b:68036

12-06 Proceedings, conferences, etc.

(Tournier, E.) *see* Computer algebra and differential equations, 90m:12002

Items listed otherwise than by author

Computer algebra and differential equations ★ Computer algebra and differential equations. 90m:12002

Items with secondary classifications in 12-06

(Durand, Alain) *see* Fifty years of polynomials, 90j:00018

(Langevin, M.) *see* Fifty years of polynomials, 90j:00018

(Waldschmidt, M.) *see* Fifty years of polynomials, 90j:00018

Items listed otherwise than by author

Cinquante ans de polynômes ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Conference:

Fifty Years of Polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Quadratic Forms and Real Algebraic Geometry ★ Quadratic forms and real algebraic geometry. 90j:14028

Corvallis, OR ★ Quadratic forms and real algebraic geometry. 90j:14028

Fifty years of polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Lecture Notes in Mathematics ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Paris ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Quadratic forms and real algebraic geometry ★ Quadratic forms and real algebraic geometry. 90j:14028

Items with secondary classifications in 12-06

Fried, David Cyclic resultants of reciprocal polynomials. 90h:57004

12Dxx Real and complex fields

12D05 Polynomials: factorization

Barbeau, E. J. ★ Polynomials. 90f:12001

Möbius, Michael Das Theorem von Sturm und seine (Wieder-)Entdeckung für den Mathematikunterricht. [Sturm's theorem and its (re-)discovery for the teaching of mathematics] 90k:12002

Stănescu, D. About the polynomial algebras. 90g:12002

Items with secondary classifications in 12D05

Davenport, J. H. Algebraic computations and structures. 90e:12002

Dvornicich, Roberto (with Traverso, Carlo) Newton symmetric functions and the arithmetic of algebraically closed fields. 90h:68066

Kyurkchiev, Nikolai V. *see* Markov, Svetoslav M., 90e:12004

Li, Zi Ming Determinant polynomial sequences. (Chinese) (Not in MR)

Markov, Svetoslav M. (with Kyurkchiev, Nikolai V.) A method for solving algebraic equations. 90e:12004

Traverso, Carlo *see* Dvornicich, Roberto, 90h:68066

12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Chądzyński, Jacek *see* Chądzyński, Zygmunt; et al., 90a:12004

Chądzyński, Zygmunt (with Chądzyński, Jacek; Skibiński, Przemysław) A contribution to Keller's Jacobian conjecture. II. 90a:12004

Cucker, Felipe (with Gonzalez Corbalan, Antonio) An alternate proof of the continuity of the roots of a polynomial. 90h:12003

Durand, Alain Quelques aspects de la théorie analytique des polynômes. I, II. [Some aspects of the analytic theory of polynomials. I, II] 90m:12003

Gonzalez Corbalan, Antonio *see* Cucker, Felipe, 90h:12003

Leahy, John V. (with Leahy, John V., IV) Real Hilbert rings and the real nullstellensatz. 90d:12001

Leahy, John V., IV *see* Leahy, John V., 90d:12001

Sakkalis, Takis Signs of algebraic numbers. 90m:12004

Skibiński, Przemysław *see* Chądzyński, Zygmunt; et al., 90a:12004

Items with secondary classifications in 12D10

Arnon, Dennis S. (with Mignotte, Maurice) On mechanical quantifier elimination for elementary algebra and geometry. 90a:03010

Barnish, B. Ross A generalization of Kharitonov's four-polynomial concept for robust stability problems with linearly dependent coefficient perturbations. 90h:93093

Echeverría, T. I. (with Levin, A. Yu.) Zeros of quasi-polynomials and linear time-optimal control problem. 90d:49020

Kim, Myong-Hi Topological complexity of a root finding algorithm. 90m:65058

Kozek, Andrzej (with Trzmielak-Stanisławska, Anna) On a class of omnibus algorithms for zero-finding. 90c:65072

Langevin, M. (with Reysat, É.; Rhin, Georges) Diamètres transfinis et problème de Favard. (English summary) [Transfinite diameters and the Favard problem] 90b:11103

— Solution des problèmes de Favard. (English summary) [Solution of Favard problems] 90b:11104

Leeming, David J. The real zeros of the Bernoulli polynomials. 90k:33029

Levin, A. Yu. *see* Echeverría, T. I., 90d:49020

Martin, Clyde Franklin (with Miller, John D.; Pearce, K.) Parameter identification by continuation methods. 90m:65107

McKay, James H. (with Wang, Stuart Sui Sheng) A chain rule for the resultant of two polynomials. 90h:12006

Mignotte, Maurice *see* Arnon, Dennis S., 90a:03010

Miller, John D. *see* Martin, Clyde Franklin; et al., 90m:65107

Nicolas, Jean-Louis (with Schinzel, A.) Localisation des zéros de polynômes intervenant en théorie du signal. [Location of the zeroes of polynomials arising in signal theory] 90k:30007

Pearce, K. *see* Martin, Clyde Franklin; et al., 90m:65107

Petković, M. S. ★ Iterative methods for simultaneous inclusion of polynomial zeros. 90i:65090

Renegar, James On the worst-case arithmetic complexity of approximating zeros of systems of polynomials. 90j:68021

Reysat, É. *see* Langevin, M.; et al., 90b:11103

Rhin, Georges *see* Langevin, M.; et al., 90b:11103

Sari, Tewfik Perturbations d'objets algébriques; décomposition de Goze. [Perturbations of algebraic objects; the Goze decomposition] (see 90j:03116)

Schinzel, A. *see* Nicolas, Jean-Louis, 90k:30007

Scowcroft, Philip Some continuous Positivstellensätze. 90h:12005

Sikorski, K. Study of linear information for classes of polynomial equations. 90e:65076

Sinaceur, Hourya Benis Deux moments dans l'histoire du théorème d'algèbre de Ch. F. Sturm. (English summary) [Two events in the history of the algebraic theorem of Ch. F. Sturm] 90d:01028

Soh, Y. C. Strict Hurwitz property of polynomials under coefficient perturbation. 90d:93077

Trzmielak-Stanisławska, Anna *see* Kozek, Andrzej, 90c:65072

Wang, Stuart Sui Sheng *see* McKay, James H., 90h:12006

12D15 Formally real fields [see also 12J10, 12J15]

Bradley, Margarita A sufficient condition for a polynomial to be sum of 2mth powers of rational functions. 90e:12006

Jarden, Moshe The algebraic nature of the elementary theory of PRC fields. 90h:12004

Knebusch, Manfred (with Scheiderer, Claus) ★ Einführung in die reelle Algebra. (German) [Introduction to real algebra] 90m:12005

Kucharz, W. Invertible ideals in real holomorphy rings. 90j:12002

Scheiderer, Claus *see* Knebusch, Manfred, 90m:12005

Scowcroft, Philip Some continuous Positivstellensätze. 90h:12005

Zeng, Guang Xing Polynomials over real valuation rings with core. (Chinese) 90a:12005

Items with secondary classifications in 12D15

Becker, Eberhard (with Gondard, Danielle) On rings admitting orderings and 2-primary chains of orderings of higher level. 90h:11033

Bochnak, J. (with Coste, M.; Roy, M.-F.) ★ Géométrie algébrique réelle. (French) [Real algebraic geometry] 90b:14030

Brouilard, G. W. A semi-algebraic Brouwer fixed point theorem for real affine space. 90i:14019

Buchner, M. A. (with Kucharz, W.) On relative real holomorphy rings. 90i:14025

Bürger, Gerd The \mathcal{L}^{co} -theory of the class of Archimedean real closed fields. 90i:03039

Cegielski, Patrick La théorie des corps réels-clos inductifs est une extension conservative de l'arithmétique de Peano. (English summary) [The theory of inductive real-closed fields is a conservative extension of Peano arithmetic] 90m:03073

Coste, M. *see* Bochnak, J.; et al., 90b:14030

Craven, Thomas C. Approximation properties for orderings on \ast -fields. 90j:12019

Eshov, Yu. L. RRC-fields with small absolute Galois groups. 90f:03016

Fekak, Azeddine Sur les exposants de Łojasiewicz. [Łojasiewicz exponents] 90h:32015

Fest, Markus (with Schröder, Martin) Ein nichtkommutativer konvexer Bewertungsring ohne konfinalen Schiefkörper. [A noncommutative convex valuation ring without a cofinal skew field] 90m:12013

Fitzgerald, Robert W. Ideal class groups of Witt rings. 90g:11053

Gondard, Danielle *see* Becker, Eberhard, 90h:11033

Grigoriev, D. Yu. Complexity of decision for the first-order theory of real-closed fields. (Russian) 90k:03007

Hornix, E. A. M. Field invariants under totally positive quadratic extensions. 90a:11044

Jadda, Zoubida Constructions de places réelles et géométrie semi-algébrique. [Constructions of real places and semi-algebraic geometry] 90e:14021

Knebusch, Manfred ★ Weakly semialgebraic spaces. 90j:14027

Koepeke, Peter On the elimination of Mal'cev quantifiers over Archimedean real closed fields. 90i:03029

Kraskemper, Martin (with Scharlau, Winfried) On positive quadratic forms. 90h:11037

Kucharz, W. *see* Buchner, M. A., 90i:14025

Leahy, John V. (with Leahy, John V., IV) Real Hilbert rings and the real nullstellensatz. 90d:12001

Leahy, John V., IV *see* Leahy, John V., 90d:12001

Madden, James J. Pierce-Birkhoff rings. 90m:14019

Marchio, Carla *see* Pasini, Leonardo, 90d:26030

Marinari, Maria Grazia Algebraic aspects of real geometry. (Italian) 90a:14031

Mináč, Ján Quaternion fields inside Pythagorean closure. 90b:11033

Mulcahy, Colin A representation theorem for higher level reduced Witt rings. 90a:11049

Pasini, Leonardo (with Marchio, Carla) Exponentially and logarithmically closed Hardy fields in several variables. 90i:26030

Roy, M.-F. *see* Bochnak, J.; et al., 90b:14030

Raiz, Jesús M. A characterization of sums of 2mth powers of global meromorphic functions. 90k:32035

Scharlau, Winfried *see* Kraskemper, Martin, 90h:11037

Scheiderer, Claus Stability index of real varieties. 90g:14011

Schröder, Martin *see* Fest, Markus, 90h:12013

Schwartz, Niels The basic theory of real closed spaces. 90a:14032

Simon, Odile Aspects quantitatifs de Nullstellensätze et de Positivstellensätze. Nombres de Pythagore. [Quantitative aspects of Nullstellensätze and Positivstellensätze. Pythagorean numbers] 90f:11024

- Stingle, Gilbert A measure for semialgebraic sets related to Boolean complexity. 90b:14031
 Ware, Roger Automorphisms of Pythagorean fields and their Witt rings. 90g:11054

12D99 None of the above, but in this section

- Brownawell, W. Dale Aspects of the Hilbert Nullstellensatz. 90e:12007
 van den Dries, Lou Convergent series expansions of a new type for exponential functions. 90a:12003
 Pieper, Herbert ★ Die komplexen Zahlen. (German) [The complex numbers] 90d:12002
 Shah, Michael On the distance to the zero set of a homogeneous polynomial. 90k:12004
 Tortrat, Pierre Sur la composition des polynômes. [On the composition of polynomials] 90e:12002

Items with secondary classifications in 12D99

- Berenstein, Carlos A. (with Gay, Roger; Yger, Alain) Analytic continuation of currents and division problems. (French summary) 90f:32006
 Burov, A. A. Application of extensions of the real number field to searching for completely integrable Hamiltonian systems. 90h:70012
 Christol, G. Diagonales de fractions rationnelles. [Diagonals of rational fractions] 90m:12007a
 — Erratum: "Diagonals of rational fractions". (French) 90m:12007b
 Gay, Roger see Berenstein, Carlos A.; et al., 90f:32006
 Gaze, Michel (with Lutz, Robert) Représentation paramétrique locale des courbes planes. [Local parametric representation of plane curves] 90m:14003
 Holden, Herbert Lee Rings on \mathbb{R}^2 . 90d:16024
 Lutz, Robert see Gaze, Michel, 90m:14003
 Yger, Alain see Berenstein, Carlos A.; et al., 90f:32006

12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

- Caniglia, Leandro (with Galligo, André; Heintz, Joos) Borne simple exponentielle pour les degrés dans le théorème des zéros sur un corps de caractéristique quelconque. (English summary) [Exponential simple bound for the degrees in the Nullstellensatz on a field of any characteristic] 90c:12002
 Dobbs, David E. Fields with the simple binomial theorem. 90e:12008
 Galligo, André see Caniglia, Leandro; et al., 90c:12002
 Heintz, Joos see Caniglia, Leandro; et al., 90c:12002
 Llovet, Juan (with Sendra, Juan R.) Hankel matrices and polynomials. 90i:12001
 McKay, James H. (with Wang, Stuart Sui Sheng) A chain rule for the resultant of two polynomials. 90h:12006
 Nöbauer, Wilfried Vertauschbare Polynome: an den Grenzen der Koeffizientenvergleichsmethode. [Permutable polynomials: the limits of the coefficient comparison method] 90e:12009
 Panaitopol, L. (with Ștefănescu, D.) Factorization criteria for polynomials. 90a:12006
 Redheffer, Ray (with Voigt, Alexander) Die Fredholmsche Alternative und Polynome. [The Fredholm alternative and polynomials] 90i:12002
 Sendra, Juan R. see Llovet, Juan, 90i:12001
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 Voigt, Alexander see Redheffer, Ray, 90i:12002
 Wang, Stuart Sui Sheng see McKay, James H., 90h:12006

Items with secondary classifications in 12E05

- Allan, Nelo D. A simple proof of a generalization of Eisenstein's irreducibility criterion. 90d:11032
 Barbeau, E. J. ★ Polynomials. 90f:12001
 Berenstein, Carlos A. (with Yger, Alain) Calcul de résidus et problèmes de division. (English summary) [Residue calculus and division problems] 90d:32007
 Brawley, J. V. (with Schnibben, George E.) ★ Infinite algebraic extensions of finite fields. 90i:12004
 Czapar, S. R. Solving algebraic equations via Buchberger's algorithm. 90m:12001
 Debès, Pierre Résultats récents liés au théorème d'irréductibilité de Hilbert. [Recent results related to Hilbert's irreducibility theorem] 90m:11151
 Dvornick, Roberto (with Traverso, Carlo) Newton symmetric functions and the arithmetic of algebraically closed fields. 90h:68066
 Geffand, I. M. (with Zelevinskii, A. V.; Kapranov, M. M.) A -discriminants and Cayley-Koszul complexes. 90k:14054
 — (with Zelevinskii, A. V.; Kapranov, M. M.) Newton polyhedra of principal A -determinants. 90k:14055
 Kappe, Loise-Charlotte (with Warren, Bette) An elementary test for the Galois group of a quartic polynomial. 90e:12006
 Kapranov, M. M. see Geffand, I. M.; et al., 90k:14054 and 90k:14055
 Schinzel, A. Reducibility of lacunary polynomials. IX. 90a:11117
 Schnibben, George E. see Brawley, J. V., 90i:12004
 Sigrist, François Le théorème de Burnside sur le comptage des orbites et quelques applications. [The Burnside theorem for counting orbits, and some applications] 90m:20003
 Stoyanova-Kounecheva, Bogdana I. Stability and error estimate of some parallel algorithms for polynomial evaluation. 90a:65291
 Tortrat, Pierre Sur la composition des polynômes. [On the composition of polynomials] 90f:12002
 Traverso, Carlo see Dvornick, Roberto, 90h:68066
 Wang, Yu' All trees with ten vertices and with characteristic polynomials that are unsolvable by radicals. (Chinese) 90h:05101
 — see also Yang, Zheng Xiao, 90h:05102
 Warren, Bette see Kappe, Loise-Charlotte, 90e:12006

- Wu, Wen Jun Errata and addenda to the paper: "A mechanization method of geometry. I. Elementary geometry" [Chinese Quart. J. Math. 1 (1986), no. 1, 1-14; MR 88b:03023]. 90f:03028
 Yang, Zheng Xiao (with Wang, Yu') The six-vertex graphs whose characteristic polynomials are not solvable by radicals. (Chinese) 90h:05102
 Yger, Alain see Berenstein, Carlos A., 90d:32007
 Zelevinskii, A. V. see Geffand, I. M.; et al., 90k:14054 and 90k:14055

12E10 Special polynomials

- Jensen, C. U. (with Yui, Noriko) Quaternion extensions. 90a:12007
 Yui, Noriko see Jensen, C. U., 90a:12007

Items with secondary classifications in 12E10

- Clarke, Francis The universal von Staudt theorems. 90a:11026
 Dampousse, Pierre The arithmetic of powers and roots in $GL_2(\mathbb{C})$ and $SL_2(\mathbb{C})$. 90j:15034
 Feit, Walter Some finite groups with nontrivial centers which are Galois groups. 90d:12004
 Gow, R. Some generalized Laguerre polynomials whose Galois groups are the alternating groups. 90m:12008
 Jensen, C. U. On the representations of a group as a Galois group over an arbitrary field. 90k:12006
 Malle, Gunter Polynomials with Galois groups $Aut(M_{22})$, M_{22} , and $PSL_3(F_4) \cdot 2_2$ over \mathbb{Q} . 90h:12008
 Meixner, Thomas Eine Bemerkung zu den Kreisteilungspolynomen. [A remark on cyclotomic polynomials] 90h:11110
 Nöbauer, Wilfried Vertauschbare Polynome: an den Grenzen der Koeffizientenvergleichsmethode. [Permutable polynomials: the limits of the coefficient comparison method] 90e:12009
 Rushanan, Joseph J. On the Vandermonde matrix. 90j:15039
 Schacher, Murray (with Sonn, Jack) Double covers of the symmetric groups as Galois groups over number fields. 90a:11131
 Schneps, Lella \tilde{D}_4 et \tilde{D}_4 comme groupes de Galois. (English summary) [\tilde{D}_4 and \tilde{D}_4 as Galois groups] 90f:12004
 Sonn, Jack Double covers of the alternating and symmetric groups as Galois groups over number fields. 90a:11132
 — see also Schacher, Murray, 90a:11131

12E12 Equations

- Girstmair, Kurt Über die praktische Auflösung von Gleichungen höheren Grades. [On the practical solution of equations of higher degree] 90i:12003

Items with secondary classifications in 12E12

- Barbeau, E. J. ★ Polynomials. 90f:12001
 Redheffer, Ray (with Voigt, Alexander) Die Fredholmsche Alternative und Polynome. [The Fredholm alternative and polynomials] 90i:12002
 Voigt, Alexander see Redheffer, Ray, 90i:12002

12E15 Skew fields, division rings [see also 11R52, 11R54, 11S45 16A39]

- Kang, Ming Chang Azumaya p -algebras. 90a:12008
 Lam, T. Y. (with Leroy, André) Vandermonde and Wronskian matrices over division rings. 90a:12009
 Leroy, André see Lam, T. Y., 90a:12009
 Morandi, Pat The Henselization of a valued division algebra. 90h:12007
 Riehm, Carl R. The quadratic Schur subgroup over local and global fields. 90c:12003
 Schofield, Aidan Rigid division rings. 90k:12005

Items with secondary classifications in 12E15

- Berele, Allan (with Saltman, David) The centers of generic division algebras with involution. 90d:16012
 Chipchakov, I. D. On the extension of field valuations to division algebras. (Russian) 90m:16021
 Craven, Thomas C. Approximation properties for orderings on \ast -fields. 90j:12019
 Denert, Marleen (with Van Geel, Jan) Remark on a paper of D. W. Lewis concerning the level of division algebras: "Levels and sublevels of division algebras" [Proc. Roy. Irish Acad. Sect. A 87 (1987), no. 1, 103-106; MR 89f:12003]. 90k:16019
 Endo, Shizuo Nonrationality of algebraic tori of norm type and its application to generic division rings. (see 90k:16001)
 Fest, Markus (with Schröder, Martin) Ein nichtkommutativer konvexer Bewertungsring ohne konfinalen Schiefkörper. [A noncommutative convex valuation ring without a cofinal skew field] 90m:12013
 Jacobson, Nathan Splitting fields. 90j:16037
 Kang, Ming Chang Constructions of Brauer-Severi varieties and norm hypersurfaces. 90j:14029
 Karpilovsky, Gregory ★ Unit groups of classical rings. 90c:20007
 Lam, T. Y. (with Leroy, André) Vandermonde and Wronskian matrices over division rings. 90a:12009
 — Fields of u -invariant 6 after A. Merkurjev [A. S. Merkur'ev]. 90m:11057
 Lawrence, John W. (with Simons, G. E.) Equations in division rings—a survey. 90g:16015
 Le Bruyn, Lieve (with Van den Bergh, Michel; Van Oystaeyen, F.) ★ Graded orders. 90h:16004
 Leep, David B. (with Tignol, J.-P.; Vast, N.) The level of division algebras over local and global fields. 90k:11038
 Leroy, André see Lam, T. Y., 90a:12009
 (Lewis, D. W.) see Denert, Marleen, 90k:16019
 MacRae, R. E. On the theory of division algebras. 90f:16019
 Masuoka, Akira Co-Galois theory for field extensions. 90i:12005

- Meixner, Thomas Eine Bemerkung zu den Kreisteilungspolynomen. [A remark on cyclotomic polynomials] 90b:11110
 (Merkur'ev, A. S.) see Lam, T. Y., 90m:11057
 Rónyai, Lajos Zero divisors in quaternion algebras. 90f:11102
 Saltman, David see Berle, Allan, 90d:16012
 Schröder, Martin see Fest, Markus, 90m:12013
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 Tignol, J.-P. see Leep, David B.; et al., 90i:11038
 Treur, Jan On duality for skew field extensions. 90b:16027
 Van den Bergh, Michel see Le Bruyn, Lieven; et al., 90h:16004
 Van Geel, Jan see Denert, Marleen, 90b:16019
 Van Oystaeyen, F. see Le Bruyn, Lieven; et al., 90h:16004
 Vast, N. see Leep, David B.; et al., 90i:11038
 Wadsworth, Adrian R. The residue division ring of a valued division algebra. 90b:16028
 — Dubrovin valuation rings and Henselization. 90f:16009

12E20 Finite fields (For number-theoretic questions, see 11Txx.)

- Ash, David W. (with Blake, Ian F.; Vanstone, S. A.) Low complexity normal bases. 90m:12006
 Blake, Ian F. see Ash, David W.; et al., 90m:12006
 Brawley, J. V. (with Schnibben, George E.) ★ Infinite algebraic extensions of finite fields. 90i:12004
 Lidl, R. (with Matthews, Rex) A microcomputer implementation of Galois fields. 90i:12010
 MacHale, Desmond Wedderburn's theorem revisited (again). 90e:12010
 Matthews, Rex see Lidl, R., 90i:12010
 Schnibben, George E. see Brawley, J. V., 90i:12004
 Shparlinski, I. E. see Stepanov, S. A., 90j:12003
 Stepanov, S. A. (with Shparlinski, I. E.) On the construction of a primitive normal basis of a finite field. (Russian) 90j:12003
 Vanstone, S. A. see Ash, David W.; et al., 90m:12006
 Items with secondary classifications in 12E20
 Agnew, G. B. (with Mullin, R. C.; Vanstone, S. A.) Fast exponentiation in $GF(2^n)$. 90b:11138
 Evans, Anthony B. On planes of prime order with translations and homologies. 90e:51015
 Jungnickel, Dieter (with Vanstone, S. A.) On primitive polynomials over finite fields. 90k:11164
 Kasahara, Masao see Moril, Masakatu; et al., 90m:94038
 Katz, Nicholas M. An estimate for character sums. 90b:11081
 Lüneburg, Heinz On the number of irreducible factors of degree k dividing a given polynomial over $GF(q)$. 90j:11134
 Moril, Masakatu (with Kasahara, Masao; Whiting, Douglas L.) Efficient bit-serial multiplication and the discrete-time Wiener-Hopf equation over finite fields. 90m:94038
 Mullin, R. C. see Agnew, G. B.; et al., 90b:11138
 Namba, Yôichirô Field theory of Galois fields. 90a:81154
 Vanstone, S. A. see Agnew, G. B.; et al., 90b:11138 and Jungnickel, Dieter, 90k:11164
 Whiting, Douglas L. see Moril, Masakatu; et al., 90m:94038

12E99 None of the above, but in this section

- Alonso, M. E. (with Luengo, I.; Raimondo, M.) An algorithm on quasi-ordinary polynomials. 90j:12004
 Christol, G. Diagonales de fractions rationnelles. [Diagonals of rational fractions] 90m:12007a
 — Erratum: "Diagonals of rational fractions". (French) 90m:12007b
 Kozłowski, Krzysztof Quadratic forms over quadratic extensions of generalized local fields. 90m:12011
 Luengo, I. see Alonso, M. E.; et al., 90j:12004
 Muiyassarov, A. see Soleev, A., 90j:12005
 Raimondo, M. see Alonso, M. E.; et al., 90j:12004
 Soleev, A. (with Muiyassarov, A.) Reduction of systems of nonlinear algebraic equations to block-triangular form. (Russian) 90j:12005
 Vasiu, Angela A characterisation of a class of fields by geometrical conditions. 90j:12006

Items with secondary classifications in 12E99

- Duval, Dominique Rational Puiseux expansions. 90c:14001
 Wimmer, Harald K. A factorization of the generalized Bezoutian of polynomial matrices. 90f:15019

12Fxx Field extensions

- Karpilovsky, Gregory ★ Topics in field theory. 90f:12003

12F05 Algebraic extensions

- (Ayad, Mohammed) see Varadarajan, K., 90e:12011
 Childs, Lindsay N. On the Hopf Galois theory for separable field extensions. 90g:12003
 Fried, Michael D. Combinatorial computation of moduli dimension of Nielsen classes of covers. 90j:12007
 Masuoka, Akira Co-Galois theory for field extensions. 90i:12005
 Varadarajan, K. On a query of M. Ayad. 90e:12011
 Véliz, William Yslas A generalization of Schinzel's theorem on radical extensions of fields and an application. 90d:12003

Items with secondary classifications in 12F05

- Aschbacher, Michael (with Guralnick, R.) On abelian quotients of primitive groups. 90a:20006

- Brawley, J. V. (with Schnibben, George E.) ★ Infinite algebraic extensions of finite fields. 90i:12004
 Cohn, P. M. Is there a noncommutative analogue of the resultant? 90b:16026
 Fried, Michael D. (with Völklein, Helmut) Unramified abelian extensions of Galois covers. 90j:14018
 Girstmair, Kurt Über die praktische Auflösung von Gleichungen höheren Grades. [On the practical solution of equations of higher degree] 90i:12003
 Guralnick, R. see Aschbacher, Michael, 90a:20006
 McKay, James H. (with Wang, Stuart Sui Sheng) A chain rule for the resultant of two polynomials. 90h:12006
 Schnibben, George E. see Brawley, J. V., 90i:12004
 Völklein, Helmut see Fried, Michael D., 90j:14018
 Wang, Stuart Sui Sheng see McKay, James H., 90h:12006
 Yasumoto, Masahiro Algebraic extensions in nonstandard models and Hilbert's irreducibility theorem. 90b:12004

12F10 Separable extensions, Galois theory

- Bayer, Pilar Embedding problems with kernel of order two. 90c:12004
 Beale, Stephen (with Harrison, D. K.) Generalized cyclotomic fields. 90j:12008
 Dugas, Manfred (with Göbel, Rüdiger) Field extensions in L —a solution of C. U. Jensen's \$25 problem. 90g:12004
 Endo, Shizuo Nonrationality of algebraic tori of norm type and its application to generic division rings. (see 90k:16001)
 Fein, Burton (with Saltman, David; Schacher, Murray) Heights of cyclic field extensions. 90i:12005
 Feit, Walter Some finite groups with nontrivial centers which are Galois groups. 90d:12004
 Geyer, Wolf-Dieter (with Jarden, Moshe) On the normalizer of finitely generated subgroups of absolute Galois groups of uncountable Hilbertian fields of characteristic 0. 90a:12012
 Göbel, Rüdiger see Dugas, Manfred, 90g:12004
 Gow, R. Some generalized Laguerre polynomials whose Galois groups are the alternating groups. 90m:12008
 Haran, Dan (with Jarden, Moshe) The absolute Galois group of a pseudo p -adically closed field. 90e:12012
 Harrison, D. K. see Beale, Stephen, 90j:12008
 Jarden, Moshe see Geyer, Wolf-Dieter, 90a:12012 and Haran, Dan, 90e:12012
 Jensen, C. U. On the representations of a group as a Galois group over an arbitrary field. 90k:12006
 Kappe, Luise-Charlotte (with Warren, Bette) An elementary test for the Galois group of a quartic polynomial. 90i:12006
 Kiming, Ian The classification of certain low-order 2-extensions of a field of characteristic different from 2. 90e:12013
 Malle, Gunter Polynomials with Galois groups $\text{Aut}(M_{22})$, M_{22} , and $\text{PSL}_3(F_4) : 2_2$ over \mathbb{Q} . 90h:12008
 Matzat, B. H. Über das Umkehrproblem der Galoisschen Theorie. [On the inverse problem in Galois theory] 90k:12007
 McKay, John Advances in computational Galois theory. (see 90m:00034)
 Miyake, Katsuya (with Opolka, H.) Indices of central embedding problems and applications. 90e:12014
 Odoni, R. W. K. Realising wreath products of cyclic groups as Galois groups. 90a:12013
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 Paques, A. (with Solecki, A.) A contribution on rational cubic Galois extensions. 90j:12005
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 Smith, Geoff C. Groups and polynomials. (see 90i:68007)
 Solecki, A. see Paques, A., 90j:12005
 Valentini, Robert C. Galois groups acting as linear fractional transformations. 90j:12009
 Ware, Roger A note on the quaternion group as Galois group. 90g:12006
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 White, Samuel The group generated by $x \mapsto x + 1$ and $x \mapsto x^p$ is free. 90a:12014

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- Allan, Nelo D. On integral bases of some ring of integers. 90c:11006
 Barge, Jean Cohomologie des groupes et corps d'invariants multiplicatifs. [Group cohomology and fields of multiplicative invariants] 90c:12006
 Beckmann, Sybilla Galois groups of fields of definition of solvable branched coverings. 90d:14015
 — Ramified primes in the field of moduli of branched coverings of curves. 90i:11063
 Childs, Lindsay N. On the Hopf Galois theory for separable field extensions. 90g:12003
 Cohen, Stephen D. Galois groups of trinomials. 90j:11118
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 Greither, Cornelius Cyclic Galois extensions and normal bases. 90j:11119
 Hales, A. W. Abelian groups as Brauer and character groups. 90j:12010
 Jacob, Bill (with Ware, Roger) A recursive description of the maximal pro-2 Galois group via Witt rings. 90b:11127
 Jarden, Moshe The algebraic nature of the elementary theory of PRC fields. 90h:12004
 Jensen, C. U. (with Yui, Noriko) Quaternion extensions. 90a:12007
 Kawamoto, Fumiori A note on ideal bases. 90a:11134
 Krasner, Marc Abstract Galois theory and endotheory. II. 90f:00001
 Künzi, Urs-Martin Corps multiplement pseudo- p -adiquement clos. (English summary) [Multiply pseudo- p -adically closed fields] 90k:12009
 Mináč, Ján Quaternion fields inside Pythagorean closure. 90b:11033
 Riede, Harald Reflexion am Kugelspiegel. Oder: das Problem des Alhazen. [Reflection in a spherical mirror. Or: the problem of ibn al-Haytham] 90g:51048
 Serre, Jean-Pierre Groupes de Galois sur \mathbb{Q} . [Galois groups over \mathbb{Q}] 90i:11131
 Simons, Lloyd D. Z_p -towers in Demuskin groups. 90h:20035
 Sonn, Jack Central extensions of S_n as Galois groups via trinomials. 90i:11132

Stewart, Ian ★ Galois theory. 90j:12001

Takeda, Yoshifumi Artin-Schreier coverings of algebraic surfaces. 90f:14004

Turull, Alexandre (with Vila, Núria) On rigid equations for alternating groups and their Hasse-Witt invariants. 90m:11172

Vélez, William Ylles A generalization of Schinzel's theorem on radical extensions of fields and an application. 90d:12003

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12F15 Inseparable extensions, derivations

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12F20 Transcendental extensions

Deveney, James K. (with Yanik, Joe) Nonrational fixed fields. 90f:12007

— (with Yanik, Joe) Rationality of some genus 0 extensions of $K(X)$. 90h:12010

Dzhurav, O. A method for the effective construction of the field of algebraic functions that corresponds to an n -sheeted covering of a sphere. (Russian. English summary) 90a:12015

Matignon, Michel (with Ohm, Jack) A structure theorem for simple transcendental extensions of valued fields. 90h:12011

Ohm, Jack On ruled fields. 90e:12015

— The Henselian defect for valued function fields. 90h:12012

— see also Matignon, Michel, 90h:12011

Yanik, Joe see Deveney, James K., 90h:12010 and 90f:12007

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Alexandru, Victor (with Popescu, Nicolae; Zaharescu, Alexandru) A theorem of characterization of residual transcendental extensions of a valuation. 90e:12011

Bertrand, D. Galois representations and transcendental numbers. 90a:11077

Dugas, Manfred (with Göbel, Rüdiger) Field extensions in L —a solution of C. U. Jensen's \$25 problem. 90g:12004

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Lewittes, Joseph Genus and gaps in function fields. 90d:11129

Lindström, B. Matroids algebraic over $F(t)$ are algebraic over F . 90k:05052

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Zaharescu, Alexandru see Alexandru, Victor, et al., 90c:12011

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Gorbachuk, O. L. see Artemovich, O. D., (Not in MR)

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Gow, R. Even unimodular lattices associated with the Weil representation of the finite symplectic group. 90f:20009

Wang, Ye¹ All trees with ten vertices and with characteristic polynomials that are unsolvable by radicals. (Chinese) 90h:05101

12Gxx Homological methods

12G05 Galois cohomology [see also 11R34, 11S25, 13A20, 16A16]

Barge, Jean Cohomologie des groupes et corps d'invariants multiplicatifs. [Group cohomology and fields of multiplicative invariants] 90e:12006

Hales, A. W. Abelian groups as Brauer and character groups. 90j:12010

Le Bruyn, Lieven (with Van Oystaeyen, F.) ★ Brauer groups of fields. 90j:12011

Massy, Richard Réduction de décompositions numériques de classes de cohomologie. [Reduction of numerical decompositions of cohomology classes] 90f:12008

Roux, Bernard Sur le groupe de Brauer d'un corps local à corps résiduel imparfait. [On the Brauer group of a local field with nonperfect residue field] 90e:12016

Smith, Victor ★ Topological methods in Galois representation theory. 90f:12005

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Ford, Timothy J. (with Saltman, David) Division algebras over Henselian surfaces. 90k:13001

— On the Brauer group of $k[x_1, \dots, x_n, 1/f]$. 90d:13005

Grayson, Daniel R. On the K -theory of fields. 90c:18010

Iwakami, Tatsuo Valuations of a quasi-Pythagorean field. 90g:12011

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Jannsen, Uwe On the Galois cohomology of ℓ -adic representations attached to varieties over local or global fields. 90c:14010

Merkur'ev, A. S. Torsion in the group K_2 for fields. 90d:11130

Narazuliev, U. Kh. Subgroups of the group $GL(2, \mathbb{Z}/p^2\mathbb{Z})$ and their Serre groups. (Russian) 90f:20075

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— Geometric characterization of free constructions of profinite groups. 90e:20025

12G10 Cohomological dimension

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12Hxx Differential and difference algebra

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Algebraic Manipulation for Groups and Differential Equations ★ Gun to bibun noteishiki no sushiki shori shisutemu no kenkyu. (Japanese) [Algebraic manipulation for groups and differential equations] 90a:34005

12H05 Differential algebra [see also 13N05]

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Bass, Hyman Differential structure of étale extensions of polynomial algebras. 90m:12009

Brestovski, Michel Algebraic independence of solutions of differential equations of the second order. 90j:12012

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— Some remarks on the differential dimension. 90j:12013

Cassidy, Phyllis Joan The classification of the semisimple differential algebraic groups and the linear semisimple differential algebraic Lie algebras. 90g:12007

Cherry, G. W. An analysis of the rational exponential integral. 90j:12014

Gao, Xiao Shan Minimal characteristic bases of differential polynomial ideals. (Chinese) 90c:12010

Geddes, K. O. (with Scott, T. C.) Recipes for classes of definite integrals involving exponentials and logarithms. 90f:12006

Grigor'ev, D. Yu. Complexity of the factorization of a linear ordinary differential operator. 90c:12008

Iwatsuru, Toshiaki (with Nishioka, Keiji) First order rational differential equations depending transcendently on arbitrary constants. 90j:12015

Kondrat'eva, M. V. The minimal dimension polynomial of an extension of a field that is defined by a system of linear differential equations. (Russian) 90g:12008

Levin, A. B. (with Mikhailév, A. V.) A differential dimension polynomial and the rigidity of a system of differential equations. (Russian) 90b:12001

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— see also Iwatsuru, Toshiaki, 90j:12015

Salikhov, V. Kh. On reducibility and linear reducibility of linear differential equations. (Russian) 90m:12010

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Beukers, F. (with Heckman, Gert) Monodromy for the hypergeometric function ${}_2F_1$. 90f:11034

Dereven'skiĭ, V. P. Quasilinear matrix differential equations. (Russian. English summary) 90d:34027

Egorchenko, I. A. see Fushchich, V. I., 90f:35013

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— State-variable representation revisited, application to some control problems. (see 90k:93008)

Fushchich, V. I. (with Egorchenko, I. A.) Differential invariants of the Galilei algebra. (Russian. English summary) 90f:35013

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Gibbons, John (with Kupersmidt, Boris A.) Kinetic representation of discrete integrable systems. 90k:58084

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Kolokol'tsov, V. N. (with Lebedev, D. R.) An infinite series of local conservation laws of Miura type for the higher Benney equations. 90e:35147

- Kongsakorn, Kannika *see* Laohakosol, Vichian; et al., 90j:34009
 Kupersmidt, Boris A. *see* Gibbons, John, 90k:58084
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 Lebedev, D. R. *see* Kolokol'tsov, V. N., 90c:35147
 Li, Wei¹ Remarks on rings of constants of derivations. 90a:13042
 Malgrange, Bernard Sur le théorème de Maillet. [On the theorem of Maillet] 90f:32005
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 Reach, Michael Generating difference equations with the Darboux transformation. 90a:39005
 Rubel, Lee A. A differential equation satisfied by all n -nomials. 90d:34031
 Salikhov, V. Kh. Formal solutions of linear differential equations and their application in the theory of transcendental numbers. (Russian) 90e:11110
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 Sokolov, V. V. Symmetries of evolution equations. 90f:58180
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 Tyc, Andrzej Differential basis and p -basis. 90i:13028
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 Yoshino, Masafumi Convergence of formal solutions for Fuchs-Goursat equations. 90j:35007
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12H10 Difference algebra [see also 39Axx]

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- Zipfel, Dieter Abelianizing the divided powers algebra of an algebra. 90j:16003

12H20 Abstract differential equations [see also 34Gxx]

- Ivanov, Valentin Konstantinovich Maslov semirings and linearization of differential equations. (Russian) 90j:12009
 Marić, V. Differential and algebraic equations in Hardy fields. 90m:12012
 Noumi, Masatoshi Wronskian determinants and the Gröbner representation of a linear differential equation: an approach to nonlinear integrable systems. 90k:12013
 Singer, Michael F. Liouvillian solutions of linear differential equations with Liouvillian coefficients (extended abstract). 90k:12011
 Takayama, Nobuki Gröbner basis and the problem of contiguous relations. 90d:12005
 Toki, Katsuke A remark on a homogeneous linear ordinary differential equation in characteristic $p > 0$ whose p -curvature is zero. 90f:12007
 Toponov, V. L. Reducing systems of linear differential equations to a passive form. 90j:12017

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- Bagchi, Bijan Kumar (with Lahiri, Anuradha; Roy, P. K.) Conservation laws, Korteweg-de Vries and sine-Gordon systems, and the role of supersymmetry. 90a:35192
 Bakas, I. The Hamiltonian structure of the spin-4 operator algebra. 90f:81085
 Brestovski, Michel Algebraic independence of solutions of differential equations of the second order. 90j:12012
 Delshams, Amadeo *see* Giorgilli, Antonio; et al., 90c:70026
 Escassut, Alain (with Sarment-Durix, Marie-Claude) The differential equation $y' = fy$ in the algebras $H(D)$. 90k:46166
 Fontich, Ernest *see* Giorgilli, Antonio; et al., 90c:70026
 Galgani, Luigi *see* Giorgilli, Antonio; et al., 90c:70026
 Giorgilli, Antonio (with Delshams, Amadeo; Fontich, Ernest; Galgani, Luigi; Simó, Carles) Effective stability for a Hamiltonian system near an elliptic equilibrium point, with an application to the restricted three-body problem. 90c:70026
 Iwatsuru, Toshiki (with Nishioka, Keiji) First order rational differential equations depending transcendently on arbitrary constants. 90j:12015
 Jaulent, Marcel (with Manna, Miguel A.) Solution of nonlinear equations by $\bar{\partial}$ analysis: the KdV hierarchy. 90c:35144
 Kupersmidt, Boris A. Long wave equations and metrizable Lie algebras. 90d:58055
 Lahiri, Anuradha *see* Bagchi, Bijan Kumar; et al., 90a:35192
 Lebedev, D. R. (with Radul, A. O.) Generalized internal long wave equations: construction, Hamiltonian structure, and conservation laws. 90c:58058
 Litinsky, Eugene Polynomial integrals of evolution equations. 90a:58073
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 Pommaret, J.-F. Problèmes formels en théorie du contrôle aux dérivées partielles. (English summary) [Formal problems in partial differential control theory] 90c:93024
 Pöppe, C. (with Sattinger, David H.) Fredholm determinants and the τ function for the Kadomtsev-Petviashvili hierarchy. 90k:58111
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 Ramis, J.-P. (with Sibuya, Y.) Hukuhara domains and fundamental existence and uniqueness theorems for asymptotic solutions of Gevrey type. 90k:58209
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 Salikhov, V. Kh. Formal solutions of linear differential equations and their application in the theory of transcendental numbers. (Russian) 90e:11110
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- Stramp, W. On the resonance pattern of integrable equations. 90b:58117
 Vasil'ev, M. A. Equations of motion of interacting massless fields of all spins as a free differential algebra. 90b:81052

12H25 p -adic differential equations [see also 11S80, 14G20, 34Gxx]

- André, Yves Spécialisation dans les disques singuliers réguliers. [Specialization in regular singular discs] 90f:12008
 Bézivin, J.-P. (with Robba, P.) Rational solutions of linear differential equations. 90c:12009
 Robba, P. *see* Bézivin, J.-P., 90c:12009
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 André, Yves Erratum to the article: "Complex multiplication in pencils of abelian varieties" [in *Séminaire de Théorie des Nombres, Paris 1984-85*, 1-22, Birkhäuser Boston, Boston, MA, 1986; MR 88j:14055]. (French) 90b:14061
 — \star G -functions and geometry. 90k:11087
 Bézivin, J.-P. (with Robba, P.) Solutions rationnelles d'équations différentielles. Application à un problème de transcendance. [Rational solutions of differential equations. Application to a transcendence problem] 90j:11061
 Chiarellotto, Bruno Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p -adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p -adic cohomologies] 90c:14012
 — A comparison theorem in p -adic cohomology. 90f:14020
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- Pastro, Pier I. On the integral representation of F_4 of Appell and its Lauricella generalization. 90c:33018

12Jxx Topological fields

- Warner, Seth \star Topological fields. 90i:12012

12J05 Normed fields

Items with secondary classifications in 12J05

- Sieburg, Hans-Bernd Transcendence theory over nonlocal fields. 90h:11058

12J10 Valued fields

- Garg, Usha *see* Khanduja, Sudesh K., 90c:12019
 Khanduja, Sudesh K. (with Garg, Usha) On extensions of valuations to simple transcendental extensions. 90c:12019
 Kontolatos, A. (with Stabakis, J. N.) Completion in a G -valuated topological field. 90c:12010
 Lenstra, H. W., Jr. (with Stevenhagen, Peter) Über das Fortsetzen von Bewertungen in vollständigen Körpern. [On the continuation of valuations in complete fields] 90j:12018
 Polzin, Marc Prolongement de la valeur absolue de Gauss et problème de Skolem. (English summary) [Extension of the Gauss valuation, and the Skolem problem] 90c:12020
 Stabakis, J. N. *see* Kontolatos, A., 90c:12010
 Stevenhagen, Peter *see* Lenstra, H. W., Jr., 90j:12018

Items with secondary classifications in 12J10

- Delon, Françoise Model theory of Henselian valued fields. 90j:12022
 Dickmann, M. A. The model theory of chain-closed fields. 90i:03040
 Knebusch, Manfred (with Scheiderer, Claus) \star Einführung in die reelle Algebra. (German) [Introduction to real algebra] 90m:12005
 Kontolatos, A. *see* Stabakis, J. N., 90c:12018
 Matignon, Michel Genre et genre résiduel des corps de fonctions valués. [Genus and residual genus of valued function fields] 90a:11063
 — (with Ohm, Jack) A structure theorem for simple transcendental extensions of valued fields. 90h:12011
 Morandi, Pat Value functions on central simple algebras. 90c:16007
 Ohm, Jack The Henselian defect for valued function fields. 90h:12012
 — *see also* Matignon, Michel, 90h:12011
 Scheiderer, Claus *see* Knebusch, Manfred, 90m:12005
 Stabakis, J. N. (with Kontolatos, A.) Commutative fields normed by a G -valuative order. 90a:12018

12J15 Ordered fields

- Craven, Thomas C. Approximation properties for orderings on \ast -fields. 90j:12019
 Fest, Markus (with Schröder, Martin) Ein nichtkommutativer konvexer Bewertungsring ohne konfinale Schiefkörper. [A noncommutative convex valuation ring without a cofinal skew field] 90m:12013
 Kijima, Daiji (with Nishi, Mico) The pseudo-convergent sets and the cuts of an ordered field. 90j:12020
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 Items with secondary classifications in 12J15
 Boja, N. (with Dăianu, Dan) \star Elemente algebre și topologie de teoria corporilor. (Romanian) [Algebraic and topological elements of field theory] 90j:12001
 Chacron, M. C -valuations and normal C -orderings. 90i:16016

Dăianu, Dan *see* Boja, N., 90g:12001

Dickmann, M. A. The model theory of chain-closed fields. 90i:03040

— Algebra and model theory of chain fields: an overview. 90k:12008

Knebusch, Manfred (with Scheiderer, Claus) ★ Einführung in die reelle Algebra. (German) [Introduction to real algebra] 90m:12005

Leung, Ka Hin Positive semidefinite forms over ordered skew fields. 90f:11027

Scheiderer, Claus *see* Knebusch, Manfred, 90m:12005

Wolter, Helmut Orderings in exponential fields of term-defined functions. 90k:03064

Zeng, Guang Xing Polynomials over real valuation rings with core. (Chinese) 90a:12005

12J20 General valuation theory

Alexandru, Victor (with Popescu, Nicolae; Zaharescu, Alexandru) A theorem of characterization of residual transcendental extensions of a valuation. 90c:12011

Briales Morales, E. Constructive theory of valuations. 90g:12010

Cohn, P. M. Valuations on free fields. 90e:12021

Iwakami, Tatsuo Valuations of a quasi-Pythagorean field. 90g:12011

Kontolatos, A. *see* Stabakis, J. N., 90a:12018

Popescu, Nicolae *see* Alexandru, Victor; et al., 90c:12011

Stabakis, J. N. (with Kontolatos, A.) Commutative fields normed by a G -valuative order. 90a:12018

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Lenstra, H. W., Jr. (with Stevenhagen, Peter) Über das Fortsetzen von Bewertungen in vollständigen Körpern. [On the continuation of valuations in complete fields] 90j:12018

Morandi, Pat The Henselization of a valued division algebra. 90h:12007

Stevenhagen, Peter *see* Lenstra, H. W., Jr., 90j:12018

12J25 Non-Archimedean valued fields [see also 26E30, 30G05, 32D25, 46P05]

Bastos, G. G. Quasi-semi-valuations and groups of divisibility. 90g:12012

Items with secondary classifications in 12J25

Escassut, Alain Derivative of analytic elements on infraconnected clopen sets. 90d:32028

Hà Huy Khoái (with My Vinh Quang) On p -adic Nevanlinna theory. 90e:11153

Liu, Qing Ouverts analytiques d'une courbe algébrique en géométrie rigide. [Analytic open subsets of an algebraic curve in rigid geometry] 90f:32030

My Vinh Quang *see* Hà Huy Khoái, 90e:11153

Reversat, Marc Construction analytique (rigide) de variétés abéliennes. [Rigid analytic construction of abelian varieties] 90g:14028

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Shell, Niel Point at infinity. 90a:12019

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Cohen, Jo-Ann (with Koh, Kwangil) A characterization of the p -adic integers. 90a:13041

Kanzaki, Teruo Totally real commutative algebras. 90j:13014

Koh, Kwangil *see* Cohen, Jo-Ann, 90a:13041

12Kxx Generalizations

12K05 Near-fields [see also 16A76]

Fuchs, Peter Rudolf (with Maxson, Carlton J.) Meromorphic products determining near-fields. 90e:12022

— On pseudo-finite near-fields which have finite dimension over the centre. 90h:12014

Grundhöfer, Theo (with Zassenhaus, H.) A criterion for infinite non-Dickson nearfields of dimension two. 90e:12023

Kalhoff, Franz On order compatible places of near fields. 90a:12020

Maxson, Carlton J. *see* Fuchs, Peter Rudolf, 90e:12022

Schulz, Klaus Ulrich Quantoren-Elimination bei Fastkörpern. [Quantifier elimination in nearfields] 90m:12014

Wähling, Heinz ★ Theorie der Fastkörper. (German) [Theory of nearfields] 90e:12024

Zassenhaus, H. *see* Grundhöfer, Theo, 90e:12023

Items with secondary classifications in 12K05

Bae, Chul Kun (with Park, June Won) Some characterizations of near-fields. 90i:16030

Grundhöfer, Theo Sharply transitive linear groups and nearfields over p -adic fields. 90h:20039

Park, June Won *see* Bae, Chul Kun, 90i:16030

12K99 None of the above, but in this section

Deretsky, Tatiana On existence of AIP nearfields of odd order. 90j:12021

Items with secondary classifications in 12K99

Biswas, R. Fuzzy fields and fuzzy linear spaces redefined. 90k:03050

Cho, Jung Rae On n -groupoids defined on fields. 90h:20107

Haukkanen, Pentti Some classes of quasi-fields having isomorphic additive and multiplicative groups. 90e:11012

12Lxx Connections with logic

12L05 Decidability

Delon, Françoise (with Rouani, Yamina) Indécidabilité de corps de séries formelles. (English summary) [Undecidability of fields of formal power series] 90d:12006

Phéidas, Thanases Hilbert's tenth problem for a class of rings of algebraic integers. 90b:12002

Rouani, Yamina *see* Delon, Françoise, 90d:12006

Items with secondary classifications in 12L05

Ershov, Yu. L. RRC-fields with small absolute Galois groups. 90f:03016

Künzi, Urs-Martin Corps multimplement pseudo- p -adiquement clos. (English summary) [Multiply pseudo- p -adically closed fields] 90k:12009

12L10 Ultraproducts

Items with secondary classifications in 12L10

Brion, Michel Points entiers dans les polyèdres convexes. [Lattice points in convex polyhedra] 90d:52020

Lipshitz, L. p -adic zeros of polynomials. 90d:11131

12L12 Model theory

Bélair, L. (with van den Dries, Lou; Macintyre, Angus) Elementary equivalence and codimension in p -adic fields. 90b:12003

Chatzidakis, Zoé An expansion of $\bar{\mathbb{F}}_p$. 90g:12013

Delon, Françoise Model theory of Henselian valued fields. 90j:12022

Dickmann, M. A. Algebra and model theory of chain fields: an overview. 90k:12008

van den Dries, Lou *see* Bélair, L.; et al., 90b:12003

Künzi, Urs-Martin Corps multimplement pseudo- p -adiquement clos. (English summary) [Multiply pseudo- p -adically closed fields] 90k:12009

Macintyre, Angus *see* Bélair, L.; et al., 90b:12003

Items with secondary classifications in 12L12

Bürger, Gerd The $\mathcal{L}^{<\omega}$ -theory of the class of Archimedean real closed fields. 90i:03039

Cegielski, Patrick La théorie des corps réels-clos inductifs est une extension conservative de l'arithmétique de Peano. (English summary) [The theory of inductive real-closed fields is a conservative extension of Peano arithmetic] 90m:03073

Delon, Françoise Idéaux et types sur les corps séparablement clos. (English summary)

[Ideals and types over separably closed fields] 90m:03067

— Définissabilité avec paramètres extérieurs dans \mathbb{Q}_p et \mathbb{R} . (English summary) [Definability with external parameters in \mathbb{Q}_p and \mathbb{R}] 90d:03060

Dickmann, M. A. The model theory of chain-closed fields. 90i:03040

van den Dries, Lou *see* Scowcroft, Philip, 90g:14010

Dugas, Manfred (with Göbel, Rüdiger) Field extensions in L —a solution of C. U. Jensen's $\$25$ problem. 90g:12004

Göbel, Rüdiger *see* Dugas, Manfred, 90g:12004

Koepeke, Peter On the elimination of Mal'tz quantifiers over Archimedean real closed fields. 90k:03029

Macintyre, Angus A Lefschetz principle for integral closures. (see 90d:03005)

— (with Marker, David) Primes and their residue rings in models of open induction. 90g:03042

Marker, David *see* Macintyre, Angus, 90g:03042

Scowcroft, Philip (with van den Dries, Lou) On the structure of semialgebraic sets over p -adic fields. 90g:14010

Wilkie, Alex J. On the theory of the real exponential field. 90i:03042

Wolter, Helmut Orderings in exponential fields of term-defined functions. 90k:03064

12L15 Nonstandard arithmetic [see also 03H15]

Yasumoto, Masahiro Algebraic extensions in nonstandard models and Hilbert's irreducibility theorem. 90b:12004

Items with secondary classifications in 12L15

Sari, Tewfik Perturbations d'objets algébriques; décomposition de Goze. [Perturbations of algebraic objects; the Goze decomposition] (see 90j:03116)

12L99 None of the above, but in this section

Items with secondary classifications in 12L99

Berenstein, Carlos A. (with Gay, Roger; Yger, Alain) Analytic continuation of currents and division problems. (French summary) 90f:32006

Gay, Roger *see* Berenstein, Carlos A.; et al., 90f:32006

Hatzikiriakou, Kostas (with Simpson, Stephen G.) Countable valued fields in weak subsystems of second-order arithmetic. 90b:03089

Simpson, Stephen G. *see* Hatzikiriakou, Kostas, 90b:03089

Yger, Alain *see* Berenstein, Carlos A.; et al., 90f:32006

13-XX Commutative rings and algebras {For the noncommutative case, see 16-XX.}

Bourbaki, N. ★ Commutative algebra. Chapters 1-7. 90a:13001

13-01 Elementary exposition; textbooks

Matsumura, Hideyuki ★ Commutative ring theory. 90i:13001
(Reid, Miles) see Matsumura, Hideyuki, 90i:13001

Items with secondary classifications in 13-01

Nagao, Hiroaki ★ Daisugaku. (Japanese) [Algebra] 90b:00001
(Reid, Miles) see Shafarevich, I. R., 90k:00010
Robbiano, Lorenzo Introduction to the theory of Gröbner bases. 90a:13003
Shafarevich, I. R. ★ Notiunile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] 90k:00009
— ★ Algebra. I. 90k:00010
(Spircu, T.) see Shafarevich, I. R., 90k:00009
Sweedler, Moss Groebner bases. 90g:13004

13-02 Advanced exposition (research surveys, monographs, etc.)

Glaz, Sarah ★ Commutative coherent rings. 90f:13001

Items with secondary classifications in 13-02

Bruns, Winfried (with Vetter, Udo) ★ Determinantal rings. 90f:14032
Vetter, Udo see Bruns, Winfried, 90f:14032

13-04 Explicit machine computation and programs (not the theory of computation or programming)

Bayer, D. A. (with Morrison, Ian) Standard bases and geometric invariant theory. I. Initial ideals and state polytopes. 90e:13001
Caniglia, Leandro (with Galligo, André; Heintz, Joos) Some new effectivity bounds in computational geometry. 90j:13001
Galligo, André see Caniglia, Leandro; et al., 90j:13001
Heintz, Joos see Caniglia, Leandro; et al., 90j:13001
Kapur, Deepak (with Madlener, Klaus) A completion procedure for computing a canonical basis for a k -subalgebra. 90g:13001
Madlener, Klaus see Kapur, Deepak, 90g:13001
Meinhold, Ute Algorithmische Aspekte zur Theorie der Gröbner-Basen. [Algorithmic aspects of the theory of Gröbner bases] 90b:13001
Morrison, Ian see Bayer, D. A., 90e:13001
Pauer, Franz (with Pfeifhofer, Marlene) The theory of Gröbner bases. 90a:13002
Pfeifhofer, Marlene see Pauer, Franz, 90a:13002
Robbiano, Lorenzo Introduction to the theory of Gröbner bases. 90a:13003
Shannon, David (with Sweedler, Moss) Using Gröbner bases to determine algebra membership, split surjective algebra homomorphisms determine birational equivalence. 90e:13002
Shokhhamer, R. Lifting algorithmic algorithms from a ring R to the ring $R[x]$. 90g:13002
Sturmfels, Bernd (with White, Neil) Gröbner bases and invariant theory. 90g:13003
Sweedler, Moss Groebner bases. 90g:13004
— see also Shannon, David, 90e:13002
White, Neil see Sturmfels, Bernd, 90g:13003

Items with secondary classifications in 13-04

Bayer, D. A. (with Stillman, Michael) On the complexity of computing syzygies. 90g:68071
Ferro, Alfredo (with Gallo, Giovanni) Gröbner bases, Ritt's algorithm and decision procedures for algebraic theories. (see 90d:94001)
Gallo, Giovanni see Ferro, Alfredo, 90d:94001
Gianni, Patrizia (with Trager, Barry; Zacharias, Gail) Gröbner bases and primary decomposition of polynomial ideals. 90f:68091
Hogan, Robert W. see Kobayashi, Hidetsune; et al., 90i:00005
Kobayashi, Hidetsune (with Moritsugu, Shuichi; Hogan, Robert W.) Solving systems of algebraic equations. (see 90i:00005)
Kredel, Heinz (with Weispfenning, Volker) Computing dimension and independent sets for polynomial ideals. 90c:68038
Mateussek, JH On-line computation of convolutions. (Not in MR)
Mora, T. (with Robbiano, Lorenzo) The Gröbner fan of an ideal. 90d:13004
Moritsugu, Shuichi see Kobayashi, Hidetsune; et al., 90i:00005
Pan, Laquan On the D-bases of polynomial ideals over principal ideal domains. 90g:13006
Robbiano, Lorenzo Computer and commutative algebra. 90h:68067
— see also Mora, T., 90d:13004
Stillman, Michael see Bayer, D. A., 90g:68071
Sturmfels, Bernd Computing final polynomials and final syzygies using Buchberger's Gröbner bases method. 90d:13019
Trager, Barry see Gianni, Patrizia; et al., 90f:68091
Traverso, Carlo Gröbner trace algorithms. (see 90i:00005)
Weispfenning, Volker see Kredel, Heinz, 90c:68038
Winkler, Franz A p -adic approach to the computation of Gröbner bases. 90m:68071
Zacharias, Gail see Gianni, Patrizia; et al., 90f:68091

13-06 Proceedings, conferences, etc.

(Hochster, M.) see Commutative algebra, 90d:13001
(Hunke, C.) see Commutative algebra, 90d:13001
(Sally, Judith D.) see Commutative algebra, 90d:13001
(Samuel, Pierre) see Colloquium: Samuel, Pierre, 90j:13002

Items listed otherwise than by author

Berkeley, CA ★ Commutative algebra. 90d:13001
Colloquium:
Samuel, Pierre ★ Colloquium in honor of Pierre Samuel. 90j:13002
Commutative algebra ★ Commutative algebra. 90d:13001
Microprogram:
Commutative Algebra ★ Commutative algebra. 90d:13001

Orsay ★ Colloquium in honor of Pierre Samuel. 90j:13002

Items with secondary classifications in 13-06

(Hijikata, Hiroaki) see Algebraic geometry and commutative algebra, 90b:14001a and 90b:14001b
(Hironaka, Heisuke) see Algebraic geometry and commutative algebra, 90b:14001a and 90b:14001b
(Maruyama, Masaki) see Algebraic geometry and commutative algebra, 90b:14001a and 90b:14001b
(Matsumura, Hideyuki) see Algebraic geometry and commutative algebra, 90b:14001a and 90b:14001b
(Miyanishi, Masayoshi) see Algebraic geometry and commutative algebra, 90b:14001a and 90b:14001b
(Nagata, Masayoshi) see Algebraic geometry and commutative algebra, 90b:14001a and 90b:14001b
(Oda, Tadao) see Algebraic geometry and commutative algebra, 90b:14001a and 90b:14001b
(Ueno, Kenji) see Algebraic geometry and commutative algebra, 90b:14001a and 90b:14001b

Items listed otherwise than by author

Algebraic geometry and commutative algebra ★ Algebraic geometry and commutative algebra. Vol. I. 90b:14001a
— ★ Algebraic geometry and commutative algebra. Vol. II. 90b:14001b

13Axx General commutative ring theory**13A05 Divisibility**

Items with secondary classifications in 13A05

Anderson, D. D. (with Zafrullah, Muhammad) Weakly factorial domains and groups of divisibility. 90k:13015
Picavet-L'Hermite, Martine Ordres de Gorenstein. [Gorenstein orders] 90a:13004
Zafrullah, Muhammad see Anderson, D. D., 90k:13015

13A10 Radical theory

Items with secondary classifications in 13A10

Beidar, K. I. The intersection property for radicals. 90m:16012
Lu, Chin-Pi M -radicals of submodules in modules. 90b:13010
— M -radicals of submodules in modules. 90g:13025

13A15 Ideals

Al-Ezeh, H. Pure ideals in commutative reduced Gelfand rings with unity. 90h:13001
Amasaki, Mutsumi Application of the generalized Weierstrass preparation theorem to the study of homogeneous ideals. 90d:13002
Anderson, D. D. (with Mahaney, L. A.) Generating sets for ideals. 90j:13003
Camillo, Victor Commutative rings whose principal ideals are annihilators. 90e:13003
Carbone, P. Groupe des classes de diviseurs des algèbres graduées normales. [The divisor-class group of normal graded algebras] 90m:13001
Carrà Ferro, Giuseppe Gröbner bases and Hilbert schemes. I. 90g:13005
Cho, Yong-Hwan On the ring $R(X)$. 90h:13002
Heinzer, William (with Papick, Ira J.) Remarks on a remark of Kaplansky. 90b:13002
Jeyaraj, I. (with Ratliff, L. J., Jr.) Two notes on asymptotic prime divisors. 90d:13003
Mahaney, L. A. see Anderson, D. D., 90j:13003
Matsuda, Ryūki Notes on Anderson-Anderson-Johnson questions and Bouvier questions. 90m:13002
Mirbagheri, Ahmad (with Ratliff, L. J., Jr.; Rush, D. E.) Superficial sets of elements for sets of ideals. 90m:13003
Mora, T. (with Robbiano, Lorenzo) The Gröbner fan of an ideal. 90d:13004
Pan, Laquan On the D-bases of polynomial ideals over principal ideal domains. 90g:13006
Papick, Ira J. see Heinzer, William, 90b:13002
Picavet-L'Hermite, Martine Ordres de Gorenstein. [Gorenstein orders] 90a:13004
Ratliff, L. J., Jr. see Jeyaraj, I., 90d:13003 and Mirbagheri, Ahmad; et al., 90m:13003
Robbiano, Lorenzo see Mora, T., 90d:13004
Rush, D. E. see Mirbagheri, Ahmad; et al., 90m:13003
Sally, Judith D. One-fibered ideals. 90h:13003

Items with secondary classifications in 13A15

Abhyankar, Shreeram S. (with Li, Wei¹) On the Jacobian conjecture: a new approach via Gröbner bases. 90i:13012
Anderson, D. D. (with Kang, Byung Gyun) Pseudo-Dedekind domains and divisorial ideals in $R[X]_r$. 90j:13015
Haouat, Youssef Dimension et spectre des anneaux de la forme $A + M$. [Dimension and spectrum of rings of the form $A + M$] 90a:13005
Játem, José Idealtransformierte von multiplikativen Systemen von Idealen und deren Endlichkeit. [Ideal transforms of multiplicative systems of ideals and their finiteness] 90j:13010
Kang, Byung Gyun see Anderson, D. D., 90j:13015
Kapur, Deepak (with Madlener, Klaus) A completion procedure for computing a canonical basis for a k -subalgebra. 90g:13001
Katz, Daniel (with McAdam, Stephen) Two asymptotic functions. 90c:13015
Kredel, Heinz (with Weispfenning, Volker) Computing dimension and independent sets for polynomial ideals. 90c:68038
Li, Wei¹ see Abhyankar, Shreeram S., 90i:13012
Logar, Alessandro A computational proof of the Noether normalization lemma. 90j:13017
Madlener, Klaus see Kapur, Deepak, 90g:13001
McAdam, Stephen see Katz, Daniel, 90c:13015

- Müller, H. Michael On the construction of Gröbner bases using syzygies. 90c:13008
 Niefeld, Susan B. *see* Rosenthal, Kimmo L., 90c:06017
 Pervine, Robert The behavior of regular sequences under passage from R to R/I . 90c:13008
 Rees, David ★ Lectures on the asymptotic theory of ideals. 90d:13012
 Rosenthal, Kimmo L. (with Niefeld, Susan B.) Connections between ideal theory and the theory of locales. 90c:06017
 Shokhhamer, R. Lifting canonical algorithms from a ring R to the ring $R[x]$. 90c:13002
 Swedler, Moss Groebner bases. 90c:13004
 Weispfenning, Volker *see* Kredel, Heinz, 90c:68038

13A17 Prime and primary ideals and their generalizations

- Anderson, David F. (with Dobbs, David E.) Pairs of rings with the same prime ideals. II. 90c:13001
 Dobbs, David E. *see* Anderson, David F., 90c:13001
 Gilmer, Robert (with Nashier, Budh; Nichols, Warren D.) The prime spectra of subalgebras of affine algebras and their localizations. 90c:13003
 Haouat, Youssef Dimension et spectre des anneaux de la forme $A + M$. [Dimension and spectrum of rings of the form $A + M$] 90a:13005
 Huckaba, Sam Symbolic powers of prime ideals with applications to hypersurface rings. 90c:13004
 McAdam, Stephen ★ Primes associated to an ideal. 90m:13004
 — Irrelevant prime divisors. 90j:13004
 Nashier, Budh *see* Gilmer, Robert; et al., 90c:13003
 Nichols, Warren D. *see* Gilmer, Robert; et al., 90c:13003
 Visweswaran, S. Laskerian pairs. 90c:13002
 Weston, Dana Generating absolute prime ideals. 90h:13004

Items listed otherwise than by author

Contemporary Mathematics *see* McAdam, Stephen, 90m:13004

Items with secondary classifications in 13A17

- Abhyankar, Shreeram S. (with Kulkarni, Devadatta M.) On Hilbertian ideals. 90c:14032
 Anderson, D. D. (with Zafrullah, Muhammad) Weakly factorial domains and groups of divisibility. 90k:13015
 Bommer, Roland M. Ideals differential under high order derivations. 90k:13024
 Cahen, Paul-Jean Couples d'anneaux partageant un idéal. [Pairs of rings that share an ideal] 90c:13007
 Diers, Yves Locally Hilbert categories. 90c:18009
 Gianni, Patrizia (with Trager, Barry; Zacharias, Gail) Gröbner bases and primary decomposition of polynomial ideals. 90f:68091
 Heinzer, William (with Wiegand, Sylvia) Prime ideals in two-dimensional polynomial rings. 90b:13010
 Houston, Evan (with Zafrullah, Muhammad) On t -invertibility. II. 90b:13019
 Jeyaraj, I. (with Ratliff, L. J., Jr.) Two notes on asymptotic prime divisors. 90d:13003
 Kanemitsu, Mitsuo (with Yoshida, Ken-ichi) Conductor ideals and embedded primary components of principal ideals. 90d:13010
 Kang, Byung Gyun Some questions about Prüfer v -multiplication domains. 90a:13033
 — On the converse of a well-known fact about Krull domains. 90c:13033
 Katz, Daniel (with McAdam, Stephen; Ratliff, L. J., Jr.) Prime divisors and divisorial ideals. 90c:13030
 Kulkarni, Devadatta M. *see* Abhyankar, Shreeram S., 90c:14032
 Larson, Suzanne Minimal convex extensions and intersections of primary I -ideals in f -rings. 90j:06023
 McAdam, Stephen *see* Katz, Daniel; et al., 90c:13030
 Melkersson, Lef On asymptotic stability for sets of prime ideals connected with the powers of an ideal. 90k:13014
 Okabe, Akira (with Yoshida, Ken-ichi) Note on strong pseudo-valuation domains. 90c:13005
 Ratliff, L. J., Jr. *see* Jeyaraj, I., 90d:13003 and Katz, Daniel; et al., 90c:13030
 Trager, Barry *see* Gianni, Patrizia; et al., 90f:68091
 Vilhelm, Václav Primary decompositions. (Czech. English and Russian summaries) 90c:06024
 Wiegand, Sylvia *see* Heinzer, William, 90b:13010
 Yoshida, Ken-ichi *see* Kanemitsu, Mitsuo, 90d:13010 and Okabe, Akira, 90c:13005
 Zacharias, Gail *see* Gianni, Patrizia; et al., 90f:68091
 Zafrullah, Muhammad *see* Houston, Evan, 90b:13019 and Anderson, D. D., 90b:13015
 Zischinger, Helmut Über assoziierte Primideale. [On co-associated prime ideals] 90k:13004

13A18 Valuations and their generalizations

- Alajbegović, Jusuf (with Zanardo, Paolo) Uniserial modules over Manis rings. 90c:13007
 Dobbs, David E. Coherent pseudo-valuation domains have Noetherian completions. 90c:13008
 Dugas, Manfred On modules over valuation rings with a nil radical. 90f:13002
 Green, Barry W. Immediate extensions of valuation rings. 90c:13009
 Okabe, Akira (with Yoshida, Ken-ichi) Note on strong pseudo-valuation domains. 90c:13005
 Rees, David Izumi's theorem. 90c:13010
 Rhodes, C. P. L. On valuation subalgebras and their centres. 90h:13005
 Yoshida, Ken-ichi *see* Okabe, Akira, 90c:13005
 Zanardo, Paolo *see* Alajbegović, Jusuf, 90c:13007

Items with secondary classifications in 13A18

- Alexandru, Victor (with Popescu, Nicolae; Zaharescu, Alexandru) A theorem of characterization of residual transcendental extensions of a valuation. 90c:12011
 Berman, S. D. (with Vishnyakova, N. I.) Locally cyclic modules over a valuation ring. 90c:13020

- Brundu, Michela (with Rossi, Fabio) On the computation of generalized standard bases. 90f:68097
 Gräter, Joachim An integrally closed ring which is not the intersection of valuation rings. 90a:13011
 Herrera Govantes, Francisco Javier Zariski saturation of monomial rings, and their valuation semigroups. (Spanish. English summary) 90a:13036
 Miola, A. (with Mora, T.) Constructive lifting in graded structures: a unified view of Buchberger and Hensel methods. 90f:68096
 Mora, T. *see* Miola, A., 90f:68096
 Popescu, Nicolae *see* Alexandru, Victor; et al., 90c:12011
 Rossi, Fabio *see* Brundu, Michela, 90f:68097
 Salce, Luigi (with Zanardo, Paolo) Finitely generated modules over valuation domains. 90c:13016
 Sally, Judith D. One-fibered ideals. 90h:13003
 Vishnyakova, N. I. *see* Berman, S. D., 90c:13020
 Zaharescu, Alexandru *see* Alexandru, Victor; et al., 90c:12011
 Zanardo, Paolo Valuation domains of bounded module type. 90h:13014
 — *see also* Salce, Luigi, 90c:13016

13A20 Brauer groups [see also 12Gxx, 16A16]

- Beattie, Margaret (with Caenepeel, S.) The Brauer-Long group of $\mathbb{Z}/p^r\mathbb{Z}$ -dimodule algebras. 90j:13005
 Caenepeel, S. (with Van Oystaeyen, F.) ★ Brauer groups and the cohomology of graded rings. 90c:13002
 — *see also* Beattie, Margaret, 90j:13005
 Dinkin, John W. The Azumaya complex of a commutative ring. 90c:13003
 Ford, Timothy J. (with Saltman, David) Division algebras over Henselian surfaces. 90c:13001
 — On the Brauer group of $k[x_1, \dots, x_n, 1/f]$. 90d:13005
 Lee, Heisook Brauer group over a Krull domain. 90k:13002
 Saltman, David *see* Ford, Timothy J., 90c:13001
 Ulbrich, K.-H. On the Teichmüller cocycle map. 90h:13006
 Van Oystaeyen, F. *see* Caenepeel, S., 90c:13002
 Wylter, Thomas À propos d'un lemme de K. Kato sur le groupe de Brauer en caractéristique p . [Concerning a lemma of K. Kato on the Brauer group in characteristic p] 90j:13006

Items with secondary classifications in 13A20

- Bogomolov, F. A. Brauer groups of the fields of invariants of algebraic groups. 90k:14008
 Hales, A. W. Abelian groups as Brauer and character groups. 90j:12010
 Kaji, Hajime On the vector bundles whose endomorphisms yield Azumaya algebras of cyclic type. 90d:14022
 Nelis, P. (with Van Oystaeyen, F.) Ray symmetry in projective representations and subgroups of the Brauer group. 90j:16009
 Riehm, Carl R. The linear and quadratic Schur subgroups over the S -integers of a number field. 90a:11146
 Roux, Bernard Sur le groupe de Brauer d'un corps local à corps résiduel imparfait. [On the Brauer group of a local field with nonperfect residue field] 90c:12016
 Sonn, Jack Central extensions of S_n as Galois groups via trinomials. 90i:11132
 Van Oystaeyen, F. *see* Nelis, P., 90j:16009

13A99 None of the above, but in this section

- Aharoni, Ron The topological dimension of the spectrum of a commutative ring. 90b:13004
 Dong, Xue Weakly primary rings. (Chinese. English summary) 90c:13006
 Dragomir, S. S. Congruences and inequalities of Chebyshev type. 90c:13004
 Kleimert, Ernst Some remarks on the Chinese remainder theorem. 90c:13003
 Picavet, Gabriel Factorisations de morphismes d'anneaux commutatifs. [Factorizations of morphisms of commutative rings] 90a:13006

Items with secondary classifications in 13A99

- Arnold, V. I. A -graded algebras and continued fractions. 90h:32025
 Jayaram, C. (with Manneppalli, V. L.) Noetherian regular rings. 90c:13029
 Johnson, Johnny A. (with Taylor, Monty B.) Characterizations of quasi-cyclic submodules. 90c:13011
 Manneppalli, V. L. *see* Jayaram, C., 90c:13029
 Taylor, Monty B. *see* Johnson, Johnny A., 90c:13011
 Zipsies, Dieter Abelianizing the divided powers algebra of an algebra. 90j:16003

13Bxx Ring extensions and related topics

13B02 Extension theory

- Cahen, Paul-Jean Couples d'anneaux partageant un idéal. [Pairs of rings that share an ideal] 90c:13007
 Items with secondary classifications in 13B02
 Green, Barry W. Immediate extensions of valuation rings. 90c:13009
 Oda, Susumu (with Yoshida, Ken-ichi) Anti-integral extensions of Noetherian domains. 90d:13011
 Yoshida, Ken-ichi *see* Oda, Susumu, 90d:13011

13B05 Galois theory

- Baba, Kiyoshi Examples of Krull domains in Galois descent theory. I. 90d:13006
 — Separability and pseudo-reflections of intermediate integral domains. 90m:13005
 Borevich, A. Z. An embedding problem for rings and a compatibility condition. (Russian) [see 90b:20005]
 Greither, Cornelius (with Miranda, Rick) Galois extensions of prime degree. 90k:13003

— (with Harrison, D. K.) On constructions similar to the Burnside ring for commutative rings and profinite groups. 90b:13007

Harrison, D. K. see Greither, Cornelius, 90b:13007

Micali, A. (with Paques, A.) Sur l'existence d'élément primitif et base normale. [On the existence of a primitive element and a normal basis] 90b:13005

— (with Paques, A.; Solecki, A.) Extensions cubiques à base normale. [Cubic extensions with normal basis] 90b:13004

Miranda, Rick see Greither, Cornelius, 90b:13003

Paques, A. see Micali, A., 90b:13005 and 90b:13004

Solecki, A. see Micali, A.; et al., 90b:13004

13B10 Automorphisms and derivations

Brezuleanu, A. (with Radu, N.) Stability of geometric regularity as consequence of Nagata's Jacobian criterion. 90b:13006

Furuya, Mamoru (with Niitsuma, Hiroshi) Notes on extensions of derivations. 90b:13005

Goodearl, K. R. (with Lenagan, T. H.) Constructing bad Noetherian local domains using derivations. 90b:13011

Karakas, H. Ibrahim The R -automorphisms of $R[x]$. (Turkish summary) 90b:13003

Lanski, Charles Transformations satisfying homogeneous identities. 90m:13006

Lenagan, T. H. see Goodearl, K. R., 90b:13011

Nakai, Yoshikazu see Nowicki, Andrzej Władysław, 90b:13007

Niitsuma, Hiroshi Jacobian matrix and p -basis. 90b:13004

— see also Furuya, Mamoru, 90b:13005

Nowicki, Andrzej Władysław (with Nakai, Yoshikazu) Correction to: "On Appelgate-Onishi's lemmas" [J. Pure Appl. Algebra 51 (1988), no. 3, 305–310; MR 89h:13007]. 90b:13007

Radu, N. see Brezuleanu, A., 90b:13006

Restuccia, Gaetano A few theorems on strong integrability of derivations. (Italian summary) 90b:13012

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- Játem, José Idealtransformierte von multiplikativen Systemen von Idealen und deren Endlichkeit. [Ideal transforms of multiplicative systems of ideals and their finiteness] 90g:13010
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- Facchini, Alberto Divisible modules over integral domains. 90a:13018
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- Fuchs, László¹ (with Salce, Luigi) Polyserial modules over valuation domains. 90c:13012
- Göbel, Rüdiger see Franzen, Berthold, 90g:16029
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13C15 Dimension theory, depth, related rings (catenary, etc.)

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- Byun, H. Globalization of local epimorphisms. 90a:13026
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- Huneke, C. (with Ulrich, B.) Powers of licci ideals. 90b:13008
- Kirby, David (with Mehran, Hefzi A.) The homological grade of a module. 90c:13017
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- Oishi, Akira Reductions of graded rings and pseudo-flat graded modules. 90d:13024
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- Ulrich, B. see Huneke, C., 90b:13008
- Vasconcelos, W. V. see Brennan, J. P.; et al., 90m:13023
- Weston, Dana On descent in dimension two and nonsplit Gorenstein modules. 90c:13023

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- Bruns, Winfried Additions to the theory of algebras with straightening law. 90b:13012
- Cooper, Charles J. (with Johnson, Johnny A.) The structure of fake multiplication modules and rings. 90g:13024
- Huckaba, Sam Analytic spread modulo an element and symbolic Rees algebras. 90k:13006
- Johnson, Johnny A. see Cooper, Charles J., 90g:13024
- Katz, Daniel (with McAdam, Stephen) Two asymptotic functions. 90c:13015
- Lady, E. L. Warfield duality and rank-one quasi-summands of tensor products of finite rank locally free modules over Dedekind domains. 90k:13007
- Lu, Chin-Pi M -radicals of submodules in modules. 90g:13025
- McAdam, Stephen see Katz, Daniel, 90c:13015
- Pervine, Robert The behavior of regular sequences under passage from R to R/I . 90k:13008

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- Behnke, Kurt On Auslander modules of normal surface singularities. 90k:14031
- Heinzer, William (with Lantz, David) Exceptional prime divisors of two-dimensional local domains. 90b:13026
- Lantz, David see Heinzer, William, 90b:13026
- Martsinkovsky, Alex Almost split sequences and Zariski differentials. 90b:14038
- Roberts, Leslie G. On the lifting problem over an algebraically closed field. 90b:14002
- Ruff, Dieter Eine kleine n -Ecks-Lehre. [A small catechism concerning n -gons] 90a:51019
- Weyman, Jerzy The equations of strata for binary forms. 90c:14054

13Dxx Homological methods**13D03 Cohomology of commutative rings and algebras**

- André, Michel Modules des différentielles en caractéristique p . (English summary) [Modules of differentials in characteristic p] 90c:13016
- Avramor, Luchezar L. (with Foxby, Hans-Björn) Gorenstein local homomorphisms. 90k:13009
- Call, Frederick W. \star Torsion-theoretic algebraic geometry. 90g:13026
- Foxby, Hans-Björn see Avramor, Luchezar L., 90k:13009
- Natsume, Toshikazu (with Schack, Samuel D.) A decomposition for the cyclic cohomology of a commutative algebra. 90k:13010
- Schack, Samuel D. see Natsume, Toshikazu, 90k:13010
- Seibert, Gerhard Complexes with homology of finite length and Frobenius functors. 90j:13012
- Ulicki, Mirosław Tate resolution and the structure of the exact local ring. 90b:13016

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- Aljadeff, Eli (with Rosset, Shmuel) Crossed products, cohomology, and equivariant projective representations. 90c:16043
- Avramor, Luchezar L. Homological asymptotics of modules over local rings. 90b:13014
- Bueso, J. L. (with Torrecillas Jover, Blas; Verschoren, A.) Local cohomology of graded rings and projective schemes. 90d:14004
- Dutta, S. P. Syzygies and homological conjectures. 90b:13015
- Goto, Shiro On the surjectivity criterion for Buchsbaum modules. 90j:13022
- Mimimoshvili, M. R. Aleksandrov-Čech type homology of commutative rings. (Russian. English and Georgian summaries) 90c:55002
- Ogoma, Tetsushi A note on the syzygy problem. 90g:13023
- Park, Jong Youl Dualizing complex of the blowing-up of some one-dimensional local rings. 90k:13013
- Rees, Jan-Erik Homology of free loop spaces, cyclic homology and nonrational Poincaré-Betti series in commutative algebra. 90f:55020
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- Avramov, Luchezar L. Modules of finite virtual projective dimension. 90g:13027
 Barja Pérez, Javier (with Rodicio, Antonio G.) Syzygetic ideals, regular sequences, and a question of Simis. 90b:13017
 Cheng, Fu Chang (with Zhao, Yi Cai; Tang, Gao Hua) The homological properties of coherent semilocal rings. 90m:13013
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- Ding, Nan Qing The finitely generated dimension of modules. (Chinese. English summary) 90i:16031
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- André, Michel Produit tensoriel et complexe cotangent. (English summary) [Tensor product and cotangent complex] 90m:13014
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- Fox, Thomas F. Algebraic deformations and bicohomology. 90h:18007
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 — Sums of linked ideals. 90f:13012
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13D15 Grothendieck group, K -theory [see also 14F15, 18F25, 18F30, 19Axx]

- Ischebeck, Friedrich Subintegral ring extensions and some K -theoretical functors. 90f:13011
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- Bhatwadekar, S. M. Inversion of monic polynomials and existence of unimodular elements. II. 90b:13012
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13D25 Complexes [see also 14Mxx]

- Abhyankar, Shreeram S. (with Li, Wei) On the Jacobian conjecture: a new approach via Gröbner bases. 90f:13012
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- Amasaki, Mutsumi Application of the generalized Weierstrass preparation theorem to the study of homogeneous ideals. 90d:13002

Avramov, Luchezar L. (with Foxby, Hans-Björn) Gorenstein local homomorphisms. 90k:13009

- Backelin, Jürgen (with Herzog, Jürgen; Sanders, Herbert) Matrix factorizations of homogeneous polynomials. 90g:13034
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- Fay, Temple H. Torsion divisible dimension. 90e:13015
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- Barbut, E. (with Brandal, Willy) Rings that are FGC relative to filters of ideals. 90b:13013
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- Barja Pérez, Javier (with Rodicio, Antonio G.) Syzygetic ideals, regular sequences, and a question of Simis. 90b:13017
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- Bishop, Wayne (with Petro, J. W.; Ratliff, L. J., Jr.; Rush, D. E.) Note on Noetherian filtrations. 90b:13011
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 Watanabe, Junzo The Dilworth number of Artin Gorenstein rings. 90b:13023
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Auslander, Maurice (with Reiten, Idun) The Cohen-Macaulay type of Cohen-Macaulay rings. 90b:13014

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- Gilmer, Robert (with Nashier, Budh; Nichols, Warren D.) The prime spectra of subalgebras of affine algebras and their localizations. 90b:13003
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- Glaz, Sarah \star Commutative coherent rings. 90b:13001
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13Fxx Arithmetic rings [see also 12-XX]**13F05 Dedekind and Prüfer rings and their generalizations**

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— (with Houston, Evan; Lucas, Thomas G.; Zafrullah, Muhammad) t -linked overrings and Prüfer v -multiplication domains. 90b:13016

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— Prüfer v -multiplication domains and the ring $R[X]_N$. 90b:13017

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- Anderson, David F. (with Dobbs, David E.; Fontana, Marco) On treed Nagata rings. 90b:13009
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- Nagata, Masayoshi A pairwise algorithm and its application to $\mathbb{Z}[\sqrt{14}]$. 90a:11121
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- Cooper, Charles J. (with Johnson, Johnny A.) The structure of fake multiplication modules and rings. 90b:13024
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13F15 Factorial rings, unique factorization domains

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- Choi, Sangki The divisor class group of surfaces of embedding dimension 3. 90a:14052
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Sturmfels, Bernd Computing final polynomials and final syzygies using Buchberger's Gröbner bases method. 90d:13019

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Brownawell, W. Dale Aspects of the Hilbert Nullstellensatz. 90e:12007

Chapman, Scott Integer valued polynomials and almost division algorithms. 90j:11023

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Giolami, Florida The catenarian property of power series rings over a globalized pseudo-valuation domain. 90h:13018

Haoui, Youssef Polynômes à valeurs entières et à coefficients sur une suite croissante d'anneaux. [Integer-valued polynomials with coefficients in an increasing sequence of rings] 90a:13015

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Shifman, Bernard Degree bounds for the division problem in polynomial ideals. 90h:13009

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Stefanescu, D. About the polynomial algebras. 90g:12002

Soyanova-Konchewa, Bogdana I. Stability and error estimate of some parallel algorithms for polynomial evaluation. 90a:65291

Visweswaran, S. Projective modules over subrings of $K[X_1, \dots, X_n]$ of the type $[D + I]$. 90g:13018

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Yang, Chuan Zhen (with Xu, Xian Zhen; Xu, Xin Zheng) Polynomial rings over unique factorization domains. (Chinese. English summary) 90k:13017

13F25 Formal power series rings

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Park, Jong Youll Dualizing complex of the blowing-up of some one-dimensional local rings. 90k:13013

Perrine, Robert Some remarks on the permutability of regular sequences. 90b:13014

Reich, Ludwig Über ein Problem von J. Schwaiger und Z. Moszner betreffend die Vertauschbarkeit von einparametrischen Automorphismengruppen formaler Potenzreihenringe. (English summary) [On a problem of J. Schwaiger and Z. Moszner concerning the exchangeability of one-parameter automorphism groups of rings of formal power series] 90f:13013

Reutenauer, Christophe *see* Berstel, J., 90e:68054

Siebeneicher, Christian *see* Dress, Andreas W. M., 90k:18015

Wright, David Lee The tree formulas for reversion of power series. 90d:13008

13F30 Discrete valuation rings

Gottlieb, Christian On condensed Noetherian domains whose integral closures are discrete valuation rings. 90h:13019

Items with secondary classifications in 13F30

Boja, N. (with Dăianu, Dan) ★ Elemente algebrice și topologice de teoria corpurilor. (Romanian) [Algebraic and topological elements of field theory] 90g:12001

Dăianu, Dan *see* Boja, N., 90g:12001

Goldsmith, B. On endomorphisms and automorphisms of some torsion-free modules. 90h:16051

13F99 None of the above, but in this section

Koecher, Max On endomorphisms of degree two. 90b:13022

Shen, Fu Xing A Dirichlet theorem for Goldbach commutative rings. (Chinese. English summary) 90j:13020

Wang, Jiang MPI-rings and conditions for a ring to be semilocal. (Chinese. English summary) 90k:13019

Wang, Yu Qin Subrings and quotient rings of $Q[\sqrt{k}i]$. (Chinese. English summary) 90k:13018

Items with secondary classifications in 13F99

Fleischer, Isidore Erratum: "Abstract Prüfer ideal theory" [J. Algebra 115 (1988), no. 2, 332–339; MR 89e:06015]. 90f:06027

Handelman, David E. Representing polynomials by positive linear functions on compact convex polyhedra. 90e:52005

Kang, Byung Gyun On the converse of a well-known fact about Krull domains. 90g:13033

13G05 Integral domains

Debbs, David E. A note on universally going-down. 90c:13022

Gabelli, Stefania Completely integrally closed domains and t -ideals. (Italian summary) 90h:13019

Houston, Evan (with Zafrullah, Muhammad) On t -invertibility. II. 90k:13019

Huang, Jun Min (with Zhou, Shu Tang) Pseudo-ideals of strongly regular rings and fields. (Chinese. English summary) 90k:13020

Kang, Byung Gyun On the converse of a well-known fact about Krull domains. 90g:13033

Mott, J. (with Zafrullah, Muhammad) Unruly Hilbert domains. 90m:13022

Yin, Dong Sheng A structure theorem for commutative mid-domains with unit. (Chinese. English summary) 90h:13020

Zafrullah, Muhammad Ascending chain conditions and star operations. 90h:13023

— *see also* Houston, Evan, 90k:13019 and Mott, J., 90m:13022

Zhou, Shu Tang *see* Huang, Jun Min, 90k:13020

Items with secondary classifications in 13G05

Anderson, D. D. (with Kang, Byung Gyun) Pseudo-Dedekind domains and divisorial ideals in $R[X]_v$. 90j:13015

— (with Zafrullah, Muhammad) Weakly factorial domains and groups of divisibility. 90k:13015

Anderson, David F. Root closure in integral domains. II. 90b:13008

Cabren, Paul-Jean Anneaux presque intègrealement clos. (English summary) [Almost integrally closed rings] 90a:13010

Decruyenaere, Fabien (with Jaspers, Eric) Dedekind domains and graded rings. 90m:13019

Debbs, David E. On treed overrings and going-down domains. (Italian summary) 90c:13008

— A characterization of QR-domains. 90a:13032

Gottlieb, Christian On condensed Noetherian domains whose integral closures are discrete valuation rings. 90e:13019

Jaspers, Eric *see* Decruyenaere, Fabien, 90m:13019

Kang, Byung Gyun *see* Anderson, D. D., 90j:13015

Manchanda, Pammy *see* Singh, Surjit, 90j:13008

Matsuda, Ryūki Notes on Anderson-Anderson-Johnson questions and Bouvier questions. 90c:13002

Onoda, Nobuharu A remark on spots. 90b:13009

Reisman, Moshe On Mori domains and commutative rings with CC^{-1} . 90c:13019

— On Mori domains and commutative rings with CC^{-1} . II. 90m:13020

Singh, Surjit (with Manchanda, Pammy) On complete integral closure of G -domain. 90j:13008

Zafrullah, Muhammad *see* Anderson, D. D., 90k:13015

13Hxx Local rings and semilocal rings

13H05 Regular local rings

Huneke, C. Complete ideals in two-dimensional regular local rings. 90b:13020

Items with secondary classifications in 13H05

Brezuleanu, A. (with Radu, N.) Stability of geometric regularity as consequence of Nagata's Jacobian criterion. 90b:13006

Duncan, A. J. (with O'Carroll, L.) A full uniform Artin-Rees theorem. 90c:13011

Dutta, S. P. Syzygies and homological conjectures. 90f:13015

Huneke, C. (with Simis, Aron; Vasconcelos, W. V.) Reduced normal cones are domains. 90c:13010

Johnston, Bernard The uniform bound problem for local birational nonsingular morphisms. 90b:14018

Lipman, Joseph On complete ideals in regular local rings. 90g:14003

O'Carroll, L. *see* Duncan, A. J., 90c:13011

Popesco, Durin Polynomial rings and their projective modules. 90g:13017

Radu, N. *see* Brezuleanu, A., 90b:13006

Simis, Aron *see* Huneke, C.; et al., 90c:13010

Vasconcelos, W. V. *see* Huneke, C.; et al., 90c:13010

Villamayor, Orlando Eugenio On class groups and normality of Rees rings. 90e:13007

13H10 Special types (Macaulay, Gorenstein, etc.)

Backelin, Jörgen (with Herzog, Jürgen; Sanders, Herbert) Matrix factorizations of homogeneous polynomials. 90g:13034

Brennan, J. P. (with Cougo-Pinto, M. V.; Vasconcelos, W. V.) The Jacobian module of a Lie algebra. 90m:13023

Brown, William C. One-dimensional Cohen-Macaulay rings with maximal Hilbert function. 90g:13035

Charalambous, Hara (with Evans, E. Graham; Miller, Matthew) Betti numbers for modules of finite length. 90j:13021

Ciliberto, Ciro (with Geramita, A. V.; Orecchia, Ferruccio) Remarks on a theorem of Hilbert-Burch. (Italian summary) 90a:13037

Cougo-Pinto, M. V. *see* Brennan, J. P.; et al., 90m:13023

Daepf, Ulrich (with Evans, Alan Buck) Openness and invariance results on generalized Cohen-Macaulay rings. 90m:13024

Evans, Alan Buck *see* Daepf, Ulrich, 90m:13024

Evans, E. Graham *see* Charalambous, Hara; et al., 90j:13021

Fedder, R. (with Huneke, C.; Hübl, Reinhold) Zeros of differentials along one-fibered ideals. 90d:13026

Geramita, A. V. *see* Ciliberto, Ciro; et al., 90a:13037

Goto, Shiro Surface singularities of finite Buchsbaum-representation type. 90h:13021

— On the surjectivity criterion for Buchsbaum modules. 90j:13022

Gräbe, Hans-Gert Moduln über Streckungsringen. (English summary) [Modules over straightening rings] 90g:13036

- Green, Mark L. Restrictions of linear series to hyperplanes, and some results of Macaulay and Gotzmann. 90k:13021
- Herzog, Jürgen *see* Backelin, Jürgen; et al., 90g:13034
- Hibi, Takayuki Distributive lattices, affine semigroup rings and algebras with straightening laws. 90b:13024
- Flawless O -sequences and Hilbert functions of Cohen-Macaulay integral domains. 90i:13021
- Hibi, Reinhold *see* Fedder, R.; et al., 90d:13020
- Huneke, C. *see* Fedder, R.; et al., 90d:13020
- Iarrobino, A. The Hilbert function of a Gorenstein Artin algebra. 90k:13022
- Lorenzini, Anna Betti numbers of perfect homogeneous ideals. 90i:13022
- Miller, Matthew *see* Charalambous, Hara; et al., 90j:13021
- Miyazaki, Chikashi Graded Buchsbaum algebras and Segre products. 90g:13037
- Miyazaki, Mitsuhiro Characterizations of Buchsbaum complexes. 90b:13025
- Nagel, Uwe Castelnuovo-Regularität und Hilbertreihen. (English summary) [Castelnuovo regularity and Hilbert series] 90m:13025
- Orecchia, Ferruccio *see* Ciliberto, Ciro; et al., 90a:13037
- Sánchez, Rafael A structure theorem for type 3, grade 3 perfect ideals. 90d:13021
- Sanders, Herbert *see* Backelin, Jürgen; et al., 90g:13034
- Schenzel, Peter (with Solţan, Ştefan) On ideals generated by square-free monomials in regular sequences. 90i:13023
- Solţan, Ştefan *see* Schenzel, Peter, 90i:13023
- Takeuchi, Yasuji On weakly Gorenstein dimension. 90d:13022
- Ulrich, B. On licci ideals. 90i:13012
- Sums of linked ideals. 90i:13012
- Valtonen, Erik Gorenstein rings and tensorproducts of semitrivial ring extensions. 90k:13023
- Vasconcelos, W. V. Symmetric algebras and factoriality. 90b:13023
- *see also* Brennan, J. P.; et al., 90m:13023
- Watanabe, Junzo The Dilworth number of Artin Gorenstein rings. 90j:13023
- Weston, Dana On descent in dimension two and nonsplit Gorenstein modules. 90c:13023
- Yuzvinsky, Sergey Flasque sheaves on posets and Cohen-Macaulay unions of regular varieties. 90a:13038
- Items with secondary classifications in 13H10
- Amasaki, Mutsumi Application of the generalized Weierstrass preparation theorem to the study of homogeneous ideals. 90d:13002
- Aoyama, Yôichi (with Goto, Shiro) A conjecture of Sharp—the case of local rings with $\dim \text{nonCM} \leq 1$ or $\dim \leq 5$. 90b:13018
- Anslander, Maurice (with Reiten, Idun) Cohen-Macaulay modules for graded Cohen-Macaulay rings and their completions. 90g:13014
- (with Reiten, Idun) The Cohen-Macaulay type of Cohen-Macaulay rings. 90d:13014
- Avramov, Luchezar L. Homological asymptotics of modules over local rings. 90i:13014
- Modules of finite virtual projective dimension. 90g:13027
- (with Foxby, Hans-Björn) Gorenstein local homomorphisms. 90k:13009
- Backelin, Jürgen (with Herzog, Jürgen) On Ulrich-modules over hypersurface rings. 90i:13006
- Björner, Anders (with Kalai, Gil) On f -vectors and homology. 90i:52008
- Bolondi, Giorgio (with Migliore, J. C.) Buchsbaum liaison classes. 90g:14017
- Bruns, Winfried Additions to the theory of algebras with straightening law. 90b:13012
- Carbone, P. Groupe des classes de diviseurs des algèbres graduées normales. [The divisor-class group of normal graded algebras] 90m:13001
- Fitzgerald, Robert W. Gorenstein Witt rings. 90d:11048
- Foxby, Hans-Björn *see* Avramov, Luchezar L., 90k:13009
- Geramita, A. V. (with Migliore, J. C.) Generators for the ideal of an arithmetically Buchsbaum curve. 90f:14017
- Goto, Shiro *see* Aoyama, Yôichi, 90b:13018
- Herzog, Jürgen *see* Backelin, Jürgen, 90i:13006
- Hibi, Takayuki Canonical ideals of Cohen-Macaulay partially ordered sets. 90a:06004
- Plane graphs and Cohen-Macaulay posets. 90i:05035
- What can be said about pure O -sequences? 90d:52012
- Huckaba, Sam On complete d -sequences and the defining ideals of Rees algebras. 90m:13012
- Huneke, C. (with Ulrich, B.) Powers of licci ideals. 90i:13008
- Itoh, Shiroh Integral closures of ideals generated by regular sequences. 90g:13013
- Kalai, Gil *see* Björner, Anders, 90i:52008
- Katz, Daniel (with Verma, J. K.) Extended Rees algebras and mixed multiplicities. 90i:13024
- Kirby, David Hilbert functions and the extension functor. 90d:13023
- Lê Tuấn Hoa Algorithmical aspects of the problem of classifying multi-projections of Veronesean varieties. 90d:14054
- Marley, Thomas The coefficients of the Hilbert polynomial and the reduction number of an ideal. 90m:13026
- Migliore, J. C. *see* Geramita, A. V., 90f:14017 and Bolondi, Giorgio, 90g:14017
- Ngô Việt Trung (with Valla, Giuseppe) On degree bounds for the defining equations of arithmetically Cohen-Macaulay and Buchsbaum varieties. 90a:14068
- (with Valla, Giuseppe) The Cohen-Macaulay type of points in generic position. 90i:13009
- Nishida, Koji On a construction of indecomposable modules and applications. 90g:13015
- Ogoma, Tetsushi A note on the syzygy problem. 90g:13023
- Park, Jong Youll Dualizing complex of the blowing-up of some one-dimensional local rings. 90k:13013
- Platte, Erich ★ Differentielle Methoden in der lokalen Algebra. (German) [Differential methods in local algebra] 90a:14022
- Reiten, Idun *see* Auslander, Maurice, 90d:13014 and 90g:13014
- Sally, Judith D. One-fibered ideals. 90b:13003
- Solberg, Øyvind Hypersurface singularities of finite Cohen-Macaulay type. 90b:14004
- Srinivasan, Hema Algebra structures on some canonical resolutions. 90g:13028
- Stückrad, Jürgen (with Vogel, Wolfgang) Castelnuovo's regularity and multiplicity. 90b:14059a

- (with Vogel, Wolfgang) Castelnuovo bounds for locally Cohen-Macaulay schemes. 90b:14059b
- (with Vogel, Wolfgang) Castelnuovo's regularity and cohomological properties of sets of points in \mathbb{P}^n . 90b:14005
- Ulrich, B. *see* Huneke, C., 90i:13008
- Valla, Giuseppe *see* Ngô Việt Trung, 90a:14068 and 90b:13009
- Verma, J. K. Rees algebras of parameter ideals. 90i:13025
- *see also* Katz, Daniel, 90i:13024
- Vogel, Wolfgang *see* Stückrad, Jürgen, 90b:14059a; 90b:14059b and 90b:14005
- Watanabe, Keiichi Study of F -purity in dimension two. 90b:14005

13H15 Multiplicity theory and related topics

- Bodă, Eduard (with Solţan, Ştefan) On the multiplicity of $(X_1^r, X_2^s, X_1^t X_2^u)$. (Russian and Slovak summaries) 90c:13024
- Katz, Daniel (with Verma, J. K.) Extended Rees algebras and mixed multiplicities. 90i:13024
- Kirby, David On Bezout's theorem. 90a:13039
- Hilbert functions and the extension functor. 90d:13023
- Marley, Thomas The coefficients of the Hilbert polynomial and the reduction number of an ideal. 90m:13026
- Oishi, Akira Reductions of graded rings and pseudo-flat graded modules. 90d:13024
- Pohl, Thomas Cornelius Torsion des Differentialmoduls von Kurvensingularitäten mit maximaler Hilbertfunktion. [Torsion of the module of differentials of curve singularities with maximal Hilbert function] 90a:13040
- Roberts, Leslie G. (with Roitman, Moshe) On Hilbert functions of reduced and of integral algebras. 90i:13025
- Roberts, Paul Calvin Intersection theorems. 90j:13024
- Roitman, Moshe *see* Roberts, Leslie G., 90i:13025
- Solţan, Ştefan *see* Bodă, Eduard, 90c:13024
- Spangher, Walter On the computation of Hilbert-Samuel series and multiplicity. 90j:13025
- Verma, J. K. Rees algebras of parameter ideals. 90i:13025
- *see also* Katz, Daniel, 90i:13024

Items with secondary classifications in 13H15

- Achilles, Rüdiger (with Schenzel, Peter) On bounds for Castelnuovo's index of regularity. 90i:14002
- Brown, William C. One-dimensional Cohen-Macaulay rings with maximal Hilbert function. 90g:13035
- Charalambous, Hara (with Evans, E. Graham; Miller, Matthew) Betti numbers for modules of finite length. 90j:13021
- Ciliberto, Ciro (with Giametta, A. V.; Orecchia, Ferruccio) Remarks on a theorem of Hilbert-Burch. (Italian summary) 90a:13037
- Daepf, Ulrich (with Evans, Alan Buck) Openness and invariance results on generalized Cohen-Macaulay rings. 90m:13024
- Evans, Alan Buck *see* Daepf, Ulrich, 90m:13024
- Evans, E. Graham *see* Charalambous, Hara; et al., 90j:13021
- Giametta, A. V. *see* Ciliberto, Ciro; et al., 90a:13037
- Green, Mark L. Restrictions of linear series to hyperplanes, and some results of Macaulay and Gotzmann. 90k:13021
- Hibi, Takayuki Flawless O -sequences and Hilbert functions of Cohen-Macaulay integral domains. 90i:13021
- Huneke, C. (with Ulrich, B.) Powers of licci ideals. 90i:13008
- Complete ideals in two-dimensional regular local rings. 90i:13020
- Iarrobino, A. The Hilbert function of a Gorenstein Artin algebra. 90k:13022
- Lorenzini, Anna Betti numbers of perfect homogeneous ideals. 90i:13022
- Miller, Matthew *see* Charalambous, Hara; et al., 90j:13021
- Miyazaki, Chikashi Graded Buchsbaum algebras and Segre products. 90g:13037
- Orecchia, Ferruccio *see* Ciliberto, Ciro; et al., 90a:13037
- Rees, David ★ Lectures on the asymptotic theory of ideals. 90d:13012
- Schenzel, Peter (with Solţan, Ştefan) On ideals generated by square-free monomials in regular sequences. 90i:13023
- *see also* Achilles, Rüdiger, 90i:14002
- Sodhi, Amar A note on the intersection of a curve with a complete intersection in \mathbb{P}^2 . 90j:14075
- A note on the intersection of a hypersurface with a finite set of points in \mathbb{P}^n . 90j:14076
- Solţan, Ştefan *see* Schenzel, Peter, 90i:13023
- Stückrad, Jürgen (with Vogel, Wolfgang) Castelnuovo's regularity and multiplicity. 90b:14059a
- (with Vogel, Wolfgang) Castelnuovo bounds for locally Cohen-Macaulay schemes. 90b:14059b
- Ulrich, B. *see* Huneke, C., 90i:13008
- Vogel, Wolfgang *see* Stückrad, Jürgen, 90b:14059a and 90b:14059b

13H99 None of the above, but in this section

- Heinzer, William (with Lantz, David) Exceptional prime divisors of two-dimensional local domains. 90i:13026
- Lantz, David *see* Heinzer, William, 90i:13026
- Items with secondary classifications in 13H99
- Brodman, M. Asymptotic depth and connectedness in projective schemes. 90m:13010
- Gasharov, Vesselin N. (with Peeva, Irena V.) Boundedness versus periodicity over commutative local rings. 90k:13011
- McAdam, Stephen ★ Primes associated to an ideal. 90m:13004
- Nica, Vasile Linear strong approximation. 90b:14003
- Onoda, Nobuharu A remark on spots. 90b:13009
- Oishi, Akira Genera of curve singularities. 90k:14002
- Peeva, Irena V. *see* Gasharov, Vesselin N., 90k:13011

- Wang, Jiang MPI-rings and conditions for a ring to be semilocal. (Chinese. English summary) 90k:13019
- Yin, Dong Sheng A structure theorem for commutative mid-domains with unit. (Chinese. English summary) 90h:13020

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Contemporary Mathematics see McAdam, Stephen, 90m:13004

13Jxx Topological rings [see also 16A80]

13J05 Power series rings

- Reich, Ludwig Über ein Problem von J. Schwaiger und Z. Moszner betreffend die Vertauschbarkeit von einparametrischen Automorphismengruppen formaler Potenzreihenringe. (English summary) [On a problem of J. Schwaiger and Z. Moszner concerning the exchangeability of one-parameter automorphism groups of rings of formal power series] 90f:13013

Items with secondary classifications in 13J05

Escassot, Alain Factorisation de Hensel pour les séries à coefficients analytiques. [Hensel factorization for series with analytic coefficients] 90i:32024

Seibt, Peter Differential completions and differentially simple algebras. 90g:13039

13J10 Complete rings

Items with secondary classifications in 13J10

Brenzeleau, A. (with Radu, N.) Stability of geometric regularity as consequence of Nagata's Jacobian criterion. 90b:13006

Brundu, Michela (with Rossi, Fabio) On the computation of generalized standard bases. 90f:68097

Mioka, A. (with Mora, T.) Constructive lifting in graded structures: a unified view of Buchberger and Hensel methods. 90f:68096

Mora, T. see Mioka, A., 90f:68096

Radu, N. see Brenzeleau, A., 90b:13006

Rossi, Fabio see Brundu, Michela, 90f:68097

13J15 Henselian rings

Items with secondary classifications in 13J15

Artin, Michael (with Rothaus, Christel) A structure theorem for power series rings. 90b:14006

Hauser, H. (with Müller, Gerd) Algebraic singularities have maximal reductive automorphism groups. 90c:32041

Müller, Gerd see Hauser, H., 90c:32041

Rothaus, Christel see Artin, Michael, 90b:14006

13J20 Global topological rings

Al-Ezeh, H. Equality of two topologies defined on a commutative ring. (Arabic summary) 90g:13038

13J25 Ordered rings [see also 06F25, 16A86]

Items with secondary classifications in 13J25

Madden, James J. Pierce-Birkhoff rings. 90m:14019

Schwartz, Niels The basic theory of real closed spaces. 90a:14032

13J99 None of the above, but in this section

Cohen, Jo-Ann (with Koh, Kwangil) A characterization of the p -adic integers. 90a:13041

Koh, Kwangil see Cohen, Jo-Ann, 90a:13041

Items with secondary classifications in 13J99

Saluja, K. S. see Singh, Surjit, 90b:13021

Shel, Niel Point at infinity. 90a:12019

Singh, Surjit (with Saluja, K. S.) Ring topologies on the quotient field of a Krull domain. 90b:13021

13K05 Witt vectors and related rings

Items with secondary classifications in 13K05

Gaudier, Henri Algèbres de groupe du groupe additif. (English summary) [Group algebras of the additive group] 90j:14056

Wyller, Thomas À propos d'un lemme de K. Kato sur le groupe de Brauer en caractéristique p . [Concerning a lemma of K. Kato on the Brauer group in characteristic p] 90j:13006

13L05 Applications of logic to commutative algebra [see also 03Cxx, 03Hxx]

Items with secondary classifications in 13L05

Calude, Cristian (with Vaida, Dragoş) Ehrenfeucht test set theorem and Hilbert basis theorem: a constructive glimpse. (see 90m:68009)

Kucera, T. G. Totally transcendental theories of modules: decomposition of models and types. 90a:03042

MacIntyre, Angus A Lefschetz principle for integral closures. (see 90d:03005)

Nica, Vasile Linear strong approximation. 90h:14003

Vaida, Dragoş see Calude, Cristian, 90m:68009

13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx.}

13M05 Structure

You, Hong The solution to a problem of Ganesan. (Chinese. English summary) 90m:13027

Items with secondary classifications in 13M05

Cohen, Jo-Ann (with Koh, Kwangil) A characterization of the p -adic integers. 90a:13041

Koh, Kwangil see Cohen, Jo-Ann, 90a:13041

13M99 None of the above, but in this section

Items with secondary classifications in 13M99

Tao, Ren Ji Invertibility of linear finite automata over a ring. (see 90i:68004)

13N05 Differential algebra [see also 12H05]

Bommer, Roland M. Ideals differential under high order derivations. 90k:13024

Li, Wei¹ Remarks on rings of constants of derivations. 90a:13042

Li Marzi, Enzo Maria On a semireflexive module with derivation. (Italian. English summary) 90f:13014

Seibt, Peter Differential completions and differentially simple algebras. 90g:13039

Skryabin, S. M. Regular Lie rings of derivations. 90c:13026

Soare, Nicolae The affine space of the derivations of a module. 90i:13027

Tyc, Andrzej Differential basis and p -basis. 90c:13028

Items with secondary classifications in 13N05

Bass, Hyman Differential structure of étale extensions of polynomial algebras. 90m:12009

Carrà Ferro, Giuseppa Gröbner bases and differential algebra. 90i:12009

— Some remarks on the differential dimension. 90j:12013

Furuya, Mamoru (with Niitsuma, Hiroshi) Notes on extensions of derivations. 90i:13005

Gao, Xiao Shan Minimal characteristic bases of differential polynomial ideals. (Chinese) 90i:12010

Niitsuma, Hiroshi see Furuya, Mamoru, 90i:13005

Takeuchi, Mitsuhiro A Hopf algebraic approach to the Picard-Vessiot theory. 90j:12016

14-XX Algebraic geometry

14-01 Elementary exposition; textbooks

Reid, Miles ★ Undergraduate algebraic geometry. 90a:14001

Shafarevich, I. R. ★ Основы алгебраической геометрии. Том 1. (Russian) [Fundamentals of algebraic geometry. Vol. 1] 90g:14001

— ★ Основы алгебраической геометрии. Том 2. (Russian) [Fundamentals of algebraic geometry. Vol. 2] 90g:14002

Items with secondary classifications in 14-01

Fulton, William ★ Algebraic curves. 90k:14023

Griffiths, Phillip A. ★ Introduction to algebraic curves. 90i:14028

Reysat, E. ★ Quelques aspects des surfaces de Riemann. (French) [Some aspects of Riemann surfaces] 90k:30085

(Weiss, Richard) see Fulton, William, 90k:14023

(Weltin, Kuniko) see Griffiths, Phillip A., 90i:14028

14-02 Advanced exposition (research surveys, monographs, etc.)

(Ballico, Edoardo) see Problems: Algebraic geometry, 90j:14001

(Ciliberto, Ciro) see Problems: Algebraic geometry, 90j:14001

Items listed otherwise than by author

Problems:

Algebraic geometry Open problems. 90j:14001

Items with secondary classifications in 14-02

Eisenbud, David (with Harris, Joseph Daniel) Progress in the theory of complex algebraic curves. 90d:14025

Harris, Joseph Daniel see Eisenbud, David, 90d:14025

14-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 14-03

Arnold, V. I. Topological proof of the transcendence of the abelian integrals in Newton's *Principia*. (Russian) 90c:01015

Babbage, Charles ★ The works of Charles Babbage. Vol. 1. 90g:01062

- (Berg, Maxine) *see* Babbage, Charles, 90g:01062
 (Bromley, Allan G.) *see* Babbage, Charles, 90g:01062
 Bulycheva, M. G. *see* Petrova, S. S., 90e:01022
 (Campbell-Kelly, Martin) *see* Babbage, Charles, 90g:01062
 Chisini, Oscar *see* Enriques, Federico, 90b:01106a and 90b:01106b
 Clemens, Herbert *Commentary on algebraic geometry.* 90j:01027
 (Cohen, I. Bernard) *see* Babbage, Charles, 90g:01062
 Conte, Alberto *Italian algebraic geometry between the wars.* (Italian) 90a:01053
 (Dubbey, John M.) *see* Babbage, Charles, 90g:01062
 Enriques, Federico (with Chisini, Oscar) ★ *Lezioni sulla teoria geometrica delle equazioni e delle funzioni algebriche.* 1. Vol. I, II. (Italian) [Lessons on the geometric theory of equations and algebraic functions. 1. Vol. I, II] 90b:01106a
 — (with Chisini, Oscar) ★ *Lezioni sulla teoria geometrica delle equazioni e delle funzioni algebriche.* 2. Vol. III, IV. (Italian) [Lessons on the geometric theory of equations and algebraic functions. 2. Vol. III, IV] 90b:01106b
 Gherardelli, Francesco *Zappa's contributions to algebraic geometry.* (Italian) 90c:01071
 Kleiman, Steven *The development of intersection homology theory.* 90m:01045
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14-04 Explicit machine computation and programs (not the theory of computation or programming)

- Anderson, D. C. *see* Waggenspack, W. N., 90d:14001
 Chistov, A. L. *Algorithms of polynomial complexity for computational problems in the theory of algebraic curves.* (Russian. English summary) 90m:14001
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14-06 Proceedings, conferences, etc.

- (Ballico, Edoardo) *see* Algebraic curves and projective geometry, 90i:14001
 (Barth, Wolf) *see* Arithmetic of complex manifolds, 90h:14001
 (Bialynicki-Birula, A.) *see* Group actions and invariant theory, 90e:14002
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14Axx Foundations

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14A05 Relevant commutative algebra [see also 13-XX]

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14A15 Schemes

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14A20 Generalizations (algebraic spaces, motifs)

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14Bxx Local theory [see also 32Bxx]

14B05 Singularities [see also 14E15, 32B30, 32C40, 58C27]

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- Brieskorn, E.** Automorphic sets and braids and singularities. 90a:32024
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14B07 Deformations of singularities [see also 14D15, 32C40, 32G05, 32G11, 32G13]

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14B12 Local deformation theory, Artin approximation, etc.

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14B20 Formal neighborhoods

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14B25 Local structure of maps: étale, flat, etc. [see also 13-XX, 14E40]

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— On the Hilbert scheme of curves in a smooth quadric. 90d:14005

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Miro-Roig, Rosa M. Some remarks on quasi-complete intersection space curves. (Italian summary) 90m:14027

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14C15 Rational equivalence rings

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Ellingsrud, Geir (with Strømme, Stein Arild) On the Chow ring of a geometric quotient. 90h:14019

- Le Barz, Patrick *see* Elencwajg, G., 90b:14003
 Nart, Eric The Bloch complex in codimension one and arithmetic duality. 90b:11057
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 Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over F_q . 90b:14029

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 Kleiman, Steven Intersection theory and enumerative geometry: a decade in review. 90f:14034
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- Bartocci, Umberto (with Guerra, Lucio) On a linearity criterion for algebraic systems of divisors on a projective variety. (Italian summary) 90b:14010
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- Ando, Tetsuya Pluricanonical systems of algebraic varieties of general type of dimension ≤ 5 . 90c:14024
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 — A remark on linear series on general k -gonal curves. (Italian summary) 90b:14015
 — (with Lanteri, Antonio) An indecomposable rank-2 vector bundle the complete linear system of whose determinant consists of hyperelliptic curves. (Italian summary) 90b:14022
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 Brivio, Sonia (with Lanteri, Antonio) On complex projective surfaces with trigonal hyperplane sections. 90b:14032a

- (with Lanteri, Antonio) Erratum to: "On complex projective surfaces with trigonal hyperplane sections" [Manuscripta Math. 65 (1989), no. 1, 83–92]. 90b:14032b
 Coppens, Marc Smooth curves possessing many linear systems g_d^1 . 90a:14045
 Degoll, Lando Un théorème fondamental sur les systèmes linéaires de quadriques. (Russian and Polish summaries) [A fundamental theorem on linear systems of quadrics] 90d:14056
 — On the properties of the Jacobian of a linear system of quadrics. (Italian) 90d:14057
 Donagi, Ron (with Morrison, David R.) Linear systems on $K3$ -sections. 90a:14046
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 Lanteri, Antonio On polarized surfaces of Δ -genus two. (Italian summary) 90a:14053
 — (with Pallese, Marino; Somme, A. J.) Very ampleness of $K_X \otimes \mathcal{L}^{\otimes m}$ for ample and spanned line bundles \mathcal{L} . 90b:14021
 — *see also* Ballico, Edoardo, 90b:14022; Brivio, Sonia, 90b:14032a and 90b:14032b
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 Vistoli, Angelo Characteristic classes of principal bundles in algebraic intersection theory. 90b:14052

14C21 Webs, nets [see also 53A60]

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- Goldberg, Vladimir V. ★ Theory of multidimensional $(n+1)$ -webs. 90b:53021
 Little, John B. On webs of maximum rank. 90g:53023

14C22 Picard groups

- Al Amrani, A. Classes d'idéaux et groupe de Picard des fibrés projectifs tordus. (English summary) [Ideal classes and the Picard group of twisted projective bundles] 90b:14007
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- Brian, Michel Groupe de Picard et nombres caractéristiques des variétés sphériques. [Picard group and characteristic numbers of spherical varieties] 90b:14048
 Carbone, P. Groupe des classes de diviseurs des algèbres graduées normales. [The divisor-class group of normal graded algebras] 90m:13001
 Kraft, Hanspeter G -vector bundles and the linearization problem. 90b:14062
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14C25 Zero-cycles

- Greco, Silvio Remarks on the postulation of zero-dimensional subschemes of projective space. 90b:14002
 Srinivas, V. Torsion 0-cycles on affine varieties in characteristic p . 90b:14008
 — Indecomposable projective modules on affine domains. II. 90b:14014

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- Bhatwadekar, S. M. Inversion of monic polynomials and existence of unimodular elements. II. 90b:13012
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 Salberger, Per On the arithmetic of conic bundle surfaces. 90m:11093a
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14C30 Transcendental methods, Hodge theory [see also 32J25]

- Carlson, James A. (with Kasparian, Azniv; Toledo, Domingo) Variations of Hodge structure of maximal dimension. 90h:14015
- Green, Mark L. Griffiths' infinitesimal invariant and the Abel-Jacobi map. 90a:14006
- Hoffman, Jerome William On Kollár's vanishing theorems. I. 90k:14005
- Kasparian, Azniv see Carlson, James A.; et al., 90h:14015
- Laszlo, Yves Théorème de Torelli générale pour les intersections complètes de trois quadriques de dimension paire. [A generic Torelli theorem for complete intersections of three quadrics of even dimension] 90h:14006
- Puerta Sales, Fernando Applications des hyperrésolutions cubiques à la théorie de Hodge. [Applications of cubic hyperresolutions to Hodge theory] (see 90a:14024)
- Schoen, Chad Cyclic covers of P^2 branched along $v + 2$ hyperplanes and the generalized Hodge conjecture for certain abelian varieties. 90m:14009
- Toledo, Domingo see Carlson, James A.; et al., 90h:14015
- Voisin, Claire Une remarque sur l'invariant infinitésimal des fonctions normales. (English summary) [A remark on the infinitesimal invariant of normal functions] 90a:14007

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- Bardelli, Fabio A footnote to a paper by A. Grothendieck (the Grothendieck generalized Hodge conjecture for some geometric families of abelian threefolds): "Hodge's general conjecture is false for trivial reasons" [Topology 8 (1969), 299–303; MR 40 #5624]. (Italian summary) 90k:14049
- Clemens, Herbert The infinitesimal Abel-Jacobi mapping and moving the $\mathcal{D}(2) + \mathcal{D}(-4)$ curve. 90j:14047
- (Grothendieck, A.) see Bardelli, Fabio, 90k:14049
- Guillén, F. Descente cubique de la cohomologie de de Rham algébrique. [Cubic descent of the algebraic de Rham cohomology] (see 90a:14024)
- Hoyt, William L. On twisted Legendre equations and Kummer surfaces. 90h:14050
- Kawai, Sōichi On the local invariant 1-cocycle theorem. 90e:32014
- Nagase, Masayoshi Hodge theory of singular algebraic curves. 90h:14031
- Oda, Takayuki Hodge numbers of a Kummer covering of P^2 ramified along a line configuration. 90f:14006
- (with Schwermer, Joachim) Mixed Hodge structures and automorphic forms for Siegel modular varieties of degree two. 90m:11072
- Saito, Morihiko Modules of Hodge polarisables. [Polarizable Hodge modules] 90k:32038
- Schwermer, Joachim see Oda, Takayuki, 90m:11072
- Sen, Shankar The analytic variation of p -adic Hodge structure. 90b:11062
- Shafarevich, I. R. ★ Основы алгебраической геометрии. Том 2. (Russian) [Fundamentals of algebraic geometry. Vol. 2] 90g:14002
- Ueda, Takeshi Lefschetz operators and the existence of projective equations. 90m:14013

14C35 Applications of methods of algebraic K-theory [see also 14F05, 18F25, 19E15]

- Dupont, Johan L. On polylogarithms. 90d:14009
- Lawson, H. Blaine, Jr. (with Michelsohn, Marie-Louise) Algebraic cycles, Bott periodicity, and the Chern characteristic map. 90d:14010
- Michelsohn, Marie-Louise see Lawson, H. Blaine, Jr., 90d:14010
- Panin, I. A. Algebraic K-theory of Grassmannian manifolds and their twisted forms. 90m:14010
- Raskind, Wayne Algebraic K-theory, étale cohomology and torsion algebraic cycles. 90d:14011
- Weibel, Charles A. A Brown-Gersten spectral sequence for the K-theory of varieties with isolated singularities. 90j:14012

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- Al Amrani, A. Groupe de Chow et K-théorie cohérente des espaces projectifs tordus. (English summary) [The Chow group and coherent K-theory of twisted projective spaces] 90e:14003
- Bhatwadekar, S. M. Inversion of monic polynomials and existence of unimodular elements. II. 90b:13012
- Bloch, Spencer Cycles and biextensions. 90d:14006
- Nesterenko, Yu. P. (with Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's K-theory. 90a:20092
- Neukirch, Jürgen The Beilinson conjecture for algebraic number fields. 90f:11042
- Onsiper, Huryit Generalized Albanese varieties for surfaces in characteristic $p > 0$. 90h:14025
- Pascual Gainza, P. Descente cubique pour la K-théorie des faisceaux cohérents et l'homologie de Chow. [Cubic descent for the K-theory of coherent sheaves and Chow homology] (see 90a:14024)
- Pedrini, Claudio Riemann-Roch and Chow theories for singular varieties. 90e:14009
- Suslin, A. A. see Nesterenko, Yu. P., 90a:20092
- Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over F_q . 90b:14029
- Survey of algebraic vs. étale topological K-theory. 90h:14029

14C40 Riemann-Roch theorems [see also 14F12, 19E20, 19L10]

- Lau, Tie Riemann-Roch type inequalities for nef and big divisors. 90h:14007
- Pedrini, Claudio Riemann-Roch and Chow theories for singular varieties. 90e:14009
- Items with secondary classifications in 14C40
- Feigla, B. L. (with Tsygan, B. L.) Riemann-Roch theorem and Lie algebra cohomology. I. 90k:17041
- Fujita, Takao Remarks on quasi-polarized varieties. 90i:14045
- Giuffrida, Salvatore The Hilbert function of curves on certain smooth quartic surfaces. 90i:14032
- Tsygan, B. L. see Feigla, B. L., 90k:17041

14C99 None of the above, but in this section

- Eisenbud, David (with Koh, Jee-Heub) Remarks on points in a projective space. 90i:14008
- Koh, Jee-Heub see Eisenbud, David, 90i:14008
- Shi, He On Chern characters of algebraic hypersurface with arbitrary singularities. 90h:14016

Items with secondary classifications in 14C99

- Angéniol, B. (with Lejeune-Jalabert, M.) ★ Calcul différentiel et classes caractéristiques en géométrie algébrique. (French) [Differential calculus and characteristic classes in algebraic geometry] 90h:14004
- Bochnak, J. (with Kucharz, W.) On real-algebraic models of smooth manifolds. 90a:14029
- Kucharz, W. see Bochnak, J., 90a:14029
- Lejeune-Jalabert, M. see Angéniol, B., 90h:14004
- Ngô Việt Trung (with Valla, Giuseppe) The Cohen-Macaulay type of points in generic position. 90i:13009
- Parimala, R. Witt groups of affine three-folds. 90a:14006
- Ramakrishnan, Dinakar Regulators, algebraic cycles, and values of L-functions. 90e:11094
- Sertöz, Sinan C^* -actions on Grassmann bundles and the cycle at infinity. 90f:32035
- Valla, Giuseppe see Ngô Việt Trung, 90i:13009
- Yokura, Shoji On a generalization of MacPherson's Chern homology class. 90m:32044

14Dxx Families, fibrations**14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)**

- Aomoto, K. A construction of integrable differential system associated with braid groups. 90h:14017

Items with secondary classifications in 14D05

- André, Yves Erratum to the article: "Complex multiplication in pencils of abelian varieties" [in *Séminaire de Théorie des Nombres, Paris 1984–85*, 1–22, Birkhäuser Boston, Boston, MA, 1986; MR 88j:14055]. (French) 90h:14061
- Baldassarri, F. (with Dwork, B.; Toven, F.) On singular projective structures on Riemann surfaces. 90m:30058
- Blok, B. Yu. (with Yankielowicz, Shimon) The Riemann monodromy problem and conformal field theories on the torus. 90g:81213
- Dwork, B. see Baldassarri, F.; et al., 90m:30058
- Eguchi, Tohru (with Ooguri, Hiroshi) Differential equations for characters of Virasoro and affine Lie algebras. 90b:17026
- Fujimoto, Yoshio A remark on the decomposition of abelian fiber spaces over curves. 90m:14037
- Kiritis, E. Fuchsian differential equations for characters on the torus: a classification. 90k:81232
- Naculich, Stephen G. Differential equations for rational conformal characters. 90h:81179
- Ooguri, Hiroshi see Eguchi, Tohru, 90b:17026
- Pascual Gainza, P. Théorèmes sur la monodromie. [Monodromy theorems] (see 90a:14024)
- Roy, Swapna see Roy Chowdhury, A., 90k:81240
- Roy Chowdhury, A. (with Roy, Swapna) On the global solution to the differential equation for the n -point conformal correlator. 90k:81240
- Sasaki, Takeshi (with Yoshida, Masaaki) Linear differential equations in two variables of rank four. I. 90i:11071a
- (with Yoshida, Masaaki) Linear differential equations in two variables of rank four. II. The uniformizing equation of a Hilbert modular orbifold. 90e:11071b
- Toven, F. see Baldassarri, F.; et al., 90m:30058
- Voisin, Claire Une remarque sur l'invariant infinitésimal des fonctions normales. (English summary) [A remark on the infinitesimal invariant of normal functions] 90a:14007
- Yankielowicz, Shimon see Blok, B. Yu., 90g:81213
- Yoshida, Masaaki ★ Fuchsian differential equations. 90f:32025
- see also Sasaki, Takeshi, 90i:11071a and 90e:11071b

14D10 Arithmetic ground fields (finite, local, global)**Items with secondary classifications in 14D10**

- Gillard, Roland Étude d'une famille modulaire de variétés abéliennes. [Study of a modular family of abelian varieties] 90k:11070
- Nadel, Alan Michael The nonexistence of certain level structures on abelian varieties over complex function fields. 90e:14044

14D15 Formal methods; deformations [see also 13D10, 14B07, 16A58, 32Gxx]

- Di Gennaro, Vincenzo A note on deformations of coherent sheaves. (Italian. English summary) 90g:14006
- Kleppe, Jan O. Liaison of families of subschemes in P^n . 90m:14011
- Peterzell, Thomas Singular surfaces and the rigidity of P_3 . 90a:14008
- Rego, C. J. Deformation of modules on curves and surfaces. 90a:14009
- Items with secondary classifications in 14D15
- André, Michel Produit tensoriel et complexe cotangent. (English summary) [Tensor product and cotangent complex] 90m:13014
- Barlet, Daniel (with Peterzell, Thomas; Schneider, Michael Hellmut) On two conjectures of Hartshorne's. 90m:14006
- Catanese, F. Everywhere nonreduced moduli spaces. 90j:14013
- Gruel, Gert-Martin (with Karras, Ulrich) Families of varieties with prescribed singularities. 90d:32037
- Karras, Ulrich see Gruel, Gert-Martin, 90d:32037

- Majadas Soto, Javier ★ Estructura de las álgebras locales noetherianas formalmente lisas. (Spanish) [The structure of formally smooth Noetherian local algebras] 90h:13013
- Mazur, Barry C. Deforming Galois representations. 90k:11057
- Oka, Mutsuo¹ On the deformation of certain type of algebraic varieties. 90e:14051
- Peternell, Thomas see Barlet, Daniel; et al., 90m:14006
- Ran, Z. Enumerative geometry of singular plane curves. 90g:14039
- Schneider, Michael Hellmut see Barlet, Daniel; et al., 90m:14006

14D20 Algebraic moduli problems {For analytic moduli problems, see 32G13.}

- Bhosle, Usha (with Ramanathan, Annamalai) Moduli of parabolic G -bundles on curves. 90h:14018
- Bulum, Alexandra Birational moduli and nonabelian cohomology. 90a:14010
- Catanese, F. Everywhere nonreduced moduli spaces. 90j:14013
- Harbourne, Brian Iterated blow-ups and moduli for rational surfaces. 90b:14009
- Murayama, Masaki On a compactification of a moduli space of stable vector bundles on a rational surface. 90a:14011
- Ramanathan, Annamalai see Bhosle, Usha, 90h:14018

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- Bhosle, Usha Parabolic vector bundles on curves. 90f:14007
- Bolondi, Giorgio (with Migliore, J. C.) The structure of an even liaison class. 90b:14060
- Fujita, Takao Polarized manifolds of degree three and Δ -genus two. 90e:14037
- Remarks on quasi-polarized varieties. 90i:14045
- Hulek, K. (with Le Potier, J.) Sur l'espace de modules des faisceaux semistables de rang 2, de classes de Chern $(0, 3)$ sur P_2 . (English summary) [The moduli space of rank-two semistable sheaves of Chern classes $(0, 3)$ on P_2] 90j:14024
- Le Potier, J. see Hulek, K., 90j:14024
- Lao, Tie Riemann-Roch type inequalities for nef and big divisors. 90i:14007
- Migliore, J. C. see Bolondi, Giorgio, 90b:14060
- Murray, M. K. Stratifying monopoles and rational maps. 90i:32032
- O'Grady, Kieran G. On the Kodaira dimension of moduli spaces of abelian surfaces. 90m:14038
- Ramadas, T. R. (with Singer, I. M.; Weitsman, J.) Some comments on Chern-Simons gauge theory. 90m:58218
- Sekiguchi, Tsutomu How coarse the coarse moduli spaces for curves are! 90d:14026
- Singer, I. M. see Ramadas, T. R.; et al., 90m:58218
- Tyurin, A. N. Symplectic structures on the moduli spaces of vector bundles on algebraic surfaces with $p_g > 0$. 90a:14020
- Viehweg, Eckart Weak positivity and the stability of certain Hilbert points. 90i:14037
- Vistoli, Angelo Intersection theory on algebraic stacks and on their moduli spaces. 90i:14004
- Weitsman, J. see Ramadas, T. R.; et al., 90m:58218

14D22 Fine structure of moduli spaces

- Kirwan, Frances Moduli spaces of degree d hypersurfaces in P_n . 90k:14006
- Laumon, Gérard Un analogue global du cône nilpotent. [A global analogue of the nilpotent cone] 90a:14012
- Tikhomirov, A. S. Smoothness of the moduli scheme of instanton vector bundles with $c_1 = 0$ and $c_2 = n$ on P^3 . 90k:14007

Items with secondary classifications in 14D22

- Balaji, V. Cohomology of certain moduli spaces of vector bundles. 90d:14020
- Brambila Paz, Leticia Moduli of homomorphisms of rank-2 vector bundles over a Riemann surface. (Spanish) 90f:14008
- Drezet, J.-M. (with Narasimhan, M. S.) Groupe de Picard des variétés de modules de fibres semi-stables sur les courbes algébriques. [The Picard group of moduli varieties of semistable bundles over algebraic curves] 90d:14008
- Narasimhan, M. S. see Drezet, J.-M., 90d:14008
- Nitsure, Nitin Cohomology of desingularization of moduli space of vector bundles. 90d:14019

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- Bogomolov, F. A. Brauer groups of the fields of invariants of algebraic groups. 90k:14008
- Bulum, Alexandra Corps de modules et cohomologie non abélienne. (English summary) [Fields of moduli and nonabelian cohomology] 90b:14010
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- Ellingsrud, Geir (with Strømme, Stein Arild) On the Chow ring of a geometric quotient. 90b:14019
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- Andruskiewitsch, Nicolás On the complicatedness of the pair (g, K) . 90h:14064
- (Billard, J.-R.) see Dixmier, Jacques, 90m:15047
- Dixmier, Jacques Quelques aspects de la théorie des invariants. [Some aspects of invariant theory] 90m:15047

- Knop, Friedrich Der kanonische Modul eines Invariantenrings. (English summary) [The canonical module of a ring of invariants] 90k:14053
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- Shepherd-Barron, N. I. Invariant theory for S_3 and the rationality of M_6 . 90b:14058
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14D99 None of the above, but in this section

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- Nakayama, Noboru On Weierstrass models. 90m:14030

14Exx Mappings and correspondences

14E05 Rational maps, birational correspondences

- Colliot-Thélène, Jean-Louis (with Ojanguren, Manuel) Variétés unirationnelles non rationnelles: au-delà de l'exemple d'Artin et Mumford. [Nonrational unirational varieties: beyond the example of Artin and Mumford] 90m:14012
- Crauder, Bruce (with Katz, Sheldon H.) Cremona transformations with smooth irreducible fundamental locus. 90b:14012
- Eneva, Gergana V. A Cremona correspondence between three-dimensional planes in a five-dimensional complex projective space. (Russian. English summary) 90g:14007
- Fujita, Takao Notes on quasi-polarized varieties. 90f:14003
- Katz, Sheldon H. see Crauder, Bruce, 90b:14012
- Kollár, János Flops. 90e:14011
- Li, Wei¹ On a problem about face polynomials. 90k:14009
- Lao, Tie (with Luo, Zhao Hua) Factorization of birational morphisms with fiber dimension bounded by 1. 90a:14015b
- Luo, Zhao Hua see Lao, Tie, 90a:14015b
- Ojanguren, Manuel see Colliot-Thélène, Jean-Louis, 90m:14012
- Petrov, L. K. Linear inversion with respect to the cubic norm-surface V_3^3 in P_4 . (Bulgarian. English and Russian summaries) 90b:14020
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- Nagata, Masayoshi Two-dimensional Jacobian conjecture. 90k:14010a
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- Meisters, Gary Hosler see McLeod, Robert M., 90b:26020
- Miyajishi, Masayoshi (with Robbiano, Lorenzo; Wang, Stuart Sui Sheng) A brief proof of Jacobian hypothesis implies flatness. 90k:13018
- Robbiano, Lorenzo see Miyajishi, Masayoshi; et al., 90k:13018
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- On linear differential operators related to the Jacobian conjecture. 90c:32004a
- Wang, Stuart Sui Sheng see Miyajishi, Masayoshi; et al., 90k:13018

14E10 General correspondences

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- Martens, Henrik H. Mappings of closed Riemann surfaces. 90i:14030

14E15 Global theory of singularities, resolution [see also 14B05, 32C45]

- Cutkosky, Steven Dale On unique and almost unique factorization of complete ideals. 90b:14016a
 — On unique and almost unique factorization of complete ideals. II. 90b:14016b
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 Jaffe, David B. On set theoretic complete intersections in P^3 . 90m:14048a
 — Erratum: "On set theoretic complete intersections in P^3 ". 90m:14048b
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- Asada, Mamoru Indistinguishability of conjugacy classes of the pro- l mapping class group. 90b:14015
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14E22 Ramification problems [see also 11S15]

- Abellanas, Manuel Multiple subvarieties of a generic projection. 90d:14014
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- Lanteri, Antonio (with Palleschi, Marino; Sommesse, A. J.) Very ampleness of $K_X \otimes \mathcal{L}^{\dim X}$ for ample and spanned line bundles \mathcal{L} . 90b:14021
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- Beckmann, Sybilla Ramified primes in the field of moduli of branched coverings of curves. 90b:11063
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 Murty, V. Kumar (with Ramakrishnan, Dinakar) The Manin-Drinfel'd theorem and Ramanujan sums. 90m:11091
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- Beltrametti, M. (with Francia, P.; Sommesse, A. J.) On Reider's method and higher order embeddings. 90b:14021
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14E40 Local structure of maps: étale, flat, etc. [see also 13--XX, 14B25]

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14E99 None of the above, but in this section

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14F05 Vector bundles, sheaves, related constructions [see also 18F20, 46M20]

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 Valabrega, Paolo Subcanonical curves, bundles and reflexive sheaves on P^3 . (Italian. English summary) 90j:14070
 Wen, Ke Xin The composition of intertwining homomorphisms. 90d:20080

14F07 Weierstrass points in one and several variables; gap sheaves

Lax, R. F. Normal higher Weierstrass points. 90f:14009

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- Coppens, Marc Weierstrass points on trigonal curves. I. The ramification points. 90g:14012
 Cukierman, Fernando Families of Weierstrass points. 90g:14013
 García, Arnaldo On Weierstrass points on certain elementary abelian extensions of $k(x)$. 90m:14020
 Kato, Takao Subspaces of trigonal Riemann surfaces. 90c:14013
 Matsumoto, Toshio On some remarks about analytic differentials of higher order of a compact Riemann surface. 90c:14036
 Viana, Paulo Classicality of trigonal curves of genus five. 90f:14021
 Xu, Ming Wei Coordinate gap and biduality. 90f:14026
 — Inflection points on surfaces in P^3 . (Chinese) 90m:14032
 — The hyperosculating points of surfaces in P^3 . 90i:14060

14F10 Differentials and other special sheaves

- Arapura, Donn Smoothable varieties with torsion free canonical sheaf. 90b:14026
 Hübl, Reinhold On the transitivity of regular differential forms. 90f:14010
 Kunz, Ernst (with Waldi, Rolf) ★ Regular differential forms. 90a:14021
 Önsiper, Hursit Generalized Albanese varieties for surfaces in characteristic $p > 0$. 90h:14025
 Platte, Erich ★ Differentielle Methoden in der lokalen Algebra. (German) [Differential methods in local algebra] 90a:14022
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- André, Michel Modules des différentielles en caractéristique p . (English summary) [Modules of differentials in characteristic p] 90c:13016
 Angéniol, B. (with Lejeune-Jalabert, M.) ★ Calcul différentiel et classes caractéristiques en géométrie algébrique. (French) [Differential calculus and characteristic classes in algebraic geometry] 90h:14004
 Bonora, L. (with Matone, Marco; Rinaldi, M.) Bases of meromorphic differentials on genus g Riemann surfaces and applications. 90k:14045
 Gómez-Mont, Xavier (with Kempf, George R.) Stability of meromorphic vector fields in projective spaces. 90d:14012
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14F12 Riemann-Roch problems [See mainly 14C40, also 32L10, 57R20]

Items with secondary classifications in 14F12

- Beilinson, A. A. (with Shekhtman, V. V.) Determinant bundles and Virasoro algebras. 90m:32048
 Bott, Raoul The topological constraints on analysis. 90j:01034
 Brion, Michel Points entiers dans les polyèdres convexes. [Lattice points in convex polyhedra] 90d:52020
 Ellia, Ph. Une remarque sur les systèmes linéaires sans points base d'hypersurfaces de l'espace projectif. [A remark on base-point-free linear systems of hypersurfaces in projective space] 90m:14008
 Gérardin, Paul Le théorème de Riemann-Roch et les corps de nombres algébriques. (English summary) [The Riemann-Roch theorem and algebraic number fields] 90m:11184
 Katz, Nicholas M. (with Laumon, Gérard) Erratum: "The Fourier transform and upper bounds for exponential sums" [Inst. Hautes Études Sci. Publ. Math. No. 62 (1985), 361–418; MR 87i:14017]. (French) 90i:14022
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 Witten, Edward Free fermions on an algebraic curve. 90j:14042

14F15 Serre cohomology, K -theory [see also 13D15, 18F25, 19E20]

- Pascual Gainza, P. Descente cubique pour la K -théorie des faisceaux cohérents et l'homologie de Chow. [Cubic descent for the K -theory of coherent sheaves and Chow homology] (see 90a:14024)
 Soule, Christophe Connexions et classes caractéristiques de Beilinson. [Connections and Beilinson's characteristic classes] 90h:14026

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- Baldassarri, F. Comparison theorems in algebraic geometry. (Italian. English summary) 90c:14011
 Distler, Jacques (with Greene, B. R.; Kirklín, Kelley; Miron, Paul) Calculating endomorphism valued cohomology: singlet spectrum in superstring models. 90b:14061
 Geller, S. (with Weibel, Charles A.) $K(A, B, I)$. II. 90h:18013
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 Peterzell, Mathias Algebraic and analytic cohomology of quasiprojective varieties. 90m:32025
 Weibel, Charles A. see Geller, S., 90h:18013

14F20 Grothendieck cohomology and topology [see also 18F10]

- Deninger, Ch. Duality in the étale cohomology of one-dimensional proper schemes and generalizations. 90a:14023
 Guillén, F. (with Navarro Aznar, V.; Pascual Gainza, P.; Puerta Sales, Fernando) ★ Hyperresolutions cubiques et descente cohomologique. (French) [Cubic hyperresolutions and cohomological descent] 90a:14024
 Jannsen, Uwe On the Galois cohomology of l -adic representations attached to varieties over local or global fields. 90c:14010
 Jardine, J. F. Universal Hasse-Witt classes. 90h:14027
 Kaji, Hajime On the vector bundles whose endomorphisms yield Azumaya algebras of cyclic type. 90d:14022
 Katz, Nicholas M. Travaux de Laumon. (English) [Works of Laumon] 90h:14028
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 Pascual Gainza, P. see Guillén, F.; et al., 90a:14024
 Puerta Sales, Fernando see Guillén, F.; et al., 90a:14024
 Thomason, R. W. Survey of algebraic vs. étale topological K -theory. 90h:14029

Items with secondary classifications in 14F20

- Douai, Jean-Claude Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps locaux de dimension N . [The Tate-Poitou theorem for function fields of curves defined over N -dimensional local fields] 90m:11095
 Ford, Timothy J. On the Brauer group of $k[x_1, \dots, x_n, 1/f]$. 90d:13005
 van Geemen, Bert (with Werner, Jürgen) Nodal quintics in P^4 . 90m:14035
 Hirschowitz, André Cohérence et dualité sur le gros site de Zariski. [Coherence and duality on the big Zariski site] 90k:14012
 Jannsen, Uwe On the l -adic cohomology of varieties over number fields and its Galois cohomology. 90i:11064
 Nart, Enric The Bloch complex in codimension one and arithmetic duality. 90j:11057
 Oda, Takayuki Abelian l -adic representations associated with Selberg integrals. 90i:14013
 Raskind, Wayne Algebraic K -theory, étale cohomology and torsion algebraic cycles. 90d:14011
 Saito, Shuji Some observations on motivic cohomology of arithmetic schemes. 90k:11077
 Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over F_q . 90h:14029
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14F25 Classical real and complex cohomology

- Dai, Xin Sheng A class of symmetric functions and Chern classes of projective varieties. 90h:14030
 Nagase, Masayoshi Hodge theory of singular algebraic curves. 90h:14031

Items with secondary classifications in 14F25

- Gekeler, Ernst-Ulrich On the de Rham isomorphism for Drinfel'd modules. 90g:11070
 Kirwan, Frances Moduli spaces of degree d hypersurfaces in P_n . 90k:14006
 Shi, He On Chern characters of algebraic hypersurface with arbitrary singularities. 90h:14016

14F30 p -adic cohomology, crystalline cohomology

- Hyodo, Osamu A cohomological construction of Swan representations over the Witt ring. I. 90h:14027a
 — A cohomological construction of Swan representation over the Witt ring. II. 90h:14027b
 — On variation of Hodge-Tate structures. 90i:14019

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- Abraham, V. A. Modular crystal representations. 90b:14056
 Bauer, Ingrid (with Kosarew, Siegmund) On the Hodge spectral sequence for some classes of noncomplete algebraic manifolds. 90e:14019
 Chiarellotto, Bruno Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p -adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p -adic cohomologies] 90c:14012
 Étéssé, Jean-Yves Rationalité et valeurs de fonctions L en cohomologie cristalline. (English summary) [Rationality and values of L -functions in crystalline cohomology] 90c:11042
 Jordan, Bruce W. (with Livné, Ron) Conjecture "epsilon" for weight $k > 2$. 90d:11057
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 Suwa, Noriyuki (with Yui, Noriko) Arithmetic of certain algebraic surfaces over finite fields. 90j:11053
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14F35 Homotopy theory

- Cherenack, Paul Algebraic $\pi_2(S^2)$. 90a:14025

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- Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] 90m:14016
 Jardine, J. F. The Leray spectral sequence. 90k:18020

14F40 de Rham cohomology [see also 14C30, 32C35, 32L10]

- Baldassarri, F. Comparison theorems in algebraic geometry. (Italian. English summary) 90c:14011
 Bauer, Ingrid (with Kosarew, Siegmund) On the Hodge spectral sequence for some classes of noncomplete algebraic manifolds. 90e:14019
 Chiarellotto, Bruno Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p -adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p -adic cohomologies] 90c:14012
 — A comparison theorem in p -adic cohomology. 90i:14020

- Esnauli, Hélène On the Loday symbol in the Deligne-Belinson cohomology. 90b:14025
 Guillén, F. Descente cubique de la cohomologie de de Rham algébrique. [Cubic descent of the algebraic de Rham cohomology] (see 90a:14024)
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- Gekeler, Ernst-Ulrich On the de Rham isomorphism for Drinfel'd modules. 90b:11070
 Guillén, F. (with Navarro Aznar, V.; Pascual Gainza, P.; Puerta Sales, Fernando) ★ Hyperresolutions cubiques et descente cohomologique. (French) [Cubic hyperresolutions and cohomological descent] 90a:14024
 Laurent, Yves Vanishing cycles and second microlocalization. 90c:32018
 Navarro Aznar, V. see Guillén, F.; et al., 90a:14024
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 de Shalit, Ehud A formula for the cup product on Mumford curves. 90b:14017

14F45 Topological properties

- Kohno, Toshiaki (with Oda, Takayuki) The lower central series of the pure braid group of an algebraic curve. 90a:14026
 Lanteri, Antonio (with Struppa, Daniele C.) Topological properties of cyclic coverings branched along an ample divisor. 90b:14021
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- ten Dieck, Tammo Symmetric homology planes. 90m:14033
 Friedman, Robert David Rank two vector bundles over regular elliptic surfaces. 90a:14016
 Goresky, R. Mark (with MacPherson, Robert) ★ Stratified Morse theory. 90d:57039
 Gretenkort, Jörg (with Kleinschmidt, Peter; Sturmels, Bernd) On the existence of certain smooth toric varieties. 90b:14066
 Gurjar, R. V. (with Miyayoshi, Masayoshi) Affine surfaces with $K \leq 1$. 90b:14044
 — A tribute to a work of C. P. Ramanujam. 90d:14038
 — (with Shastri, A. R.) On the rationality of complex homology 2-cells. II. 90b:14045
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14F99 None of the above, but in this section

- Guillén, F. Hyperresolutions cubiques. [Cubic hyperresolutions] (see 90a:14024)
 Navarro Aznar, V. Théorèmes d'annulation. [Vanishing theorems] (see 90a:14024)

Items with secondary classifications in 14F99

- Colliot-Thélène, Jean-Louis (with Ojanguren, Manuel) Variétés unirationnelles non rationnelles: au-delà de l'exemple d'Artin et Mumford. [Nonrational unirational varieties: beyond the example of Artin and Mumford] 90m:14012
 Coutinho, S. C. (with Holland, M. P.) Differential operators on smooth varieties. 90m:16017
 Green, Mark L. (with Lazarsfeld, R.) Some results on the syzygies of finite sets and algebraic curves. 90d:14034
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 Joshua, Roy Equivariant intersection cohomology—a survey. 90f:55012
 Kirwan, Frances ★ An introduction to intersection homology theory. 90e:55013
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 Mekhout, Z. ★ Le formalisme des six opérations de Grothendieck pour les \mathcal{D}_X -modules cohérents. (French) [The formalism of Grothendieck's six operations for coherent \mathcal{D}_X -modules] 90m:32026
 Nagase, Masayoshi Remarks on the L^2 -cohomology of singular algebraic surfaces. 90c:58005
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 Orlik, Peter ★ Introduction to arrangements. 90i:32018
 Pardon, William The L_2 - $\bar{\partial}$ -cohomology of an algebraic surface. 90i:32014
 Schoen, Chad Cyclic covers of \mathbb{P}^n branched along $v+2$ hyperplanes and the generalized Hodge conjecture for certain abelian varieties. 90m:14009

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- CBMS Regional Conference Series in Mathematics see Orlik, Peter, 90i:32018

14Gxx Special ground fields, arithmetic problems {For complex multiplication, see 11G15, 14K22. For automorphic and modular functions and forms, see also 11Fxx, 14K15.}

Items with secondary classifications in 14Gxx

- (Brown, Martin Lawrence) see Serre, Jean-Pierre, 90e:11086
 Serre, Jean-Pierre ★ Lectures on the Mordell-Weil theorem. 90e:11086
 (Waldschmidt, M.) see Serre, Jean-Pierre, 90e:11086

14G05 Rationality questions

Items with secondary classifications in 14G05

- Manin, Yu. I. Letter to the editors: "Rational points on algebraic curves over function fields" [Izv. Akad. Nauk SSSR Ser. Mat. 27 (1963), 1397–1442; MR 28 #1199]. 90f:11039
 Salberger, Per On the arithmetic of conic bundle surfaces. 90m:11093a
 — Erratum: "On the arithmetic of conic bundle surfaces". 90m:11093b

14G10 Zeta functions and related questions [see also 11R42, 11S40, 19F27]

- Terasoma, Tomohide Complete intersections of hypersurfaces—the Fermat case and the quadric case. 90f:14011

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- Adolphson, Alan (with Sperber, Steven) On the degree of the L -function associated with an exponential sum. 90b:11134
 Brylinski, Jean-Luc Heights for local systems on curves. 90b:11066
 Deninger, Ch. Higher regulators of elliptic curves with complex multiplication. 90f:11040
 — Higher regulators and Hecke L -series of imaginary quadratic fields. I. 90f:11041
 Ditters, E. J. (with Hoving, Simen J.) On the connected part of the covariant Tate p -divisible group and the ζ -function of the family of hyperelliptic curves $y^2 = 1 + \mu x^N$ modulo various primes. 90e:14047
 Étéssé, Jean-Yves Rationalité et valeurs de fonctions L en cohomologie cristalline. (English summary) [Rationality and values of L -functions in crystalline cohomology] 90b:11042
 Grossman, Bernard Adelic conformal field theory. 90d:14023a
 — Erratum: "Adelic conformal field theory". 90d:14023b
 Hennliart, Guy Cyclotomie et valeurs de la fonction Γ (d'après G. Anderson). [Cyclotomy and values of the Γ -function (following G. Anderson)] 90i:11055
 Hoving, Simen J. see Ditters, E. J., 90f:11041
 Igusa, Jun-ichi b -functions and p -adic integrals. 90b:11140
 Jones, John William Iwasawa L -functions for multiplicative abelian varieties. 90m:11094
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 Ulmer, D. L. On universal elliptic curves over Igusa curves. 90m:11092
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14G13 Weil-Tate conjectures [see also 14Cxx]

- Grossman, Bernard Membranes in string theory, trees, the Weil conjectures, and the Ramanujan numbers. 90b:14028
 Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over F_q . 90b:14029

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- Katz, Nicholas M. Travaux de Laumon. (English) [Works of Laumon] 90b:14028

14G15 Finite ground fields

- García, Arnaldo (with Voloch, J. F.) Fermat curves over finite fields. 90a:14027
 — The curves $y^2 = f(x)$ over finite fields. 90m:14014
 Katz, Nicholas M. (with Laumon, Gérard) Erratum: "The Fourier transform and upper bounds for exponential sums" [Inst. Hautes Études Sci. Publ. Math. No. 62 (1985), 361–418; MR 87i:14017]. (French) 90i:14022
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 Voloch, J. F. A note on elliptic curves over finite fields. (French summary) 90f:14012
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- Ando, Kiyoshi see Mizuno, Hirobumi; et al., 90a:94043
 Blokhuis, A. see Bruen, A. A.; et al., 90a:51010
 Bruen, A. A. (with Thas, J. A.; Blokhuis, A.) On M.D.S. codes, arcs in $PG(n, q)$ with q even, and a solution of three fundamental problems of B. Segre. 90a:51010
 Chudnovsky, David V. (with Chudnovsky, Gregory V.) Algebraic complexities and algebraic curves over finite fields. 90g:11167
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 Mizuno, Hirobumi (with Ando, Kiyoshi; Ikeda, Kohei; Ichijo, Takashi) Code length and the zeta function. (Japanese. English summary) 90a:94043
 Roberts, Leslie G. (with Roitman, Moshe) On Hilbert functions of reduced and of integral algebras. 90c:13025
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 Scharian, Winfried Selbstduale Goppa-Codes. [Self-dual Goppa codes] 90e:11146
 Shokrollahi, Mohammad Amin Codes on Hermitian curves. 90b:11137
 Stichtenoth, Henning A note on Hermitian codes over $GF(q^2)$. 90e:94030
 — Self-dual Goppa codes. 90a:11150
 Süß, Karl-Otto (with Viana, Paulo) A study of Hasse-Witt matrices by local methods. 90d:11074

- Sun, Qi (with Xiao, Rong) Two kinds of elliptic curves over F_q used to set up cryptosystems. (Chinese. English summary) 90m:11199
- Suwa, Noriyuki (with Yui, Noriko) Jacobi sums, Fermat motives and the Artin-Tate formula. 90b:11052
- Thas, J. A. see Bruen, A. A.; et al., 90a:51010
- Toki, Keisuke On Hasse-Witt matrices of Fermat varieties. 90e:11031
- Tufasman, M. A. see Katsman, G. L., 90e:94028
- Vainsencher, I. On Stöhr-Voloch's proof of Weil's theorem. 90b:11051
- Viana, Paulo see Stöhr, Karl-Otto, 90d:11074
- Voloch, J. F. On the number of values taken by a polynomial over a finite field. 90j:11138
- Wirtz, Michael On the parameters of Goppa codes. 90e:94031
- Wolfmann, J. New bounds on cyclic codes from algebraic curves. 90j:11140
- The number of points on certain algebraic curves over finite fields. 90k:11030
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14G20 p -adic ground fields (local fields)

- Chekhov, L. O. (with Mironov, A. D.; Zabrodin, A. V.) Multiloop calculations in p -adic string theory and Bruhat-Tits trees. 90k:14016
- van den Dries, Lou see Scowcroft, Philip, 90g:14010
- Grossman, Bernard Adelic conformal field theory. 90d:14023a
- Erratum: "Adelic conformal field theory". 90d:14023b
- Lütkebohmert, Werner Formal-algebraic and rigid-analytic geometry. 90m:14015
- Mironov, A. D. see Chekhov, L. O.; et al., 90k:14016
- Nguyen Kkhak V'et Minimal models of algebraic curves. (Russian) 90b:14032
- Scowcroft, Philip (with van den Dries, Lou) On the structure of semialgebraic sets over p -adic fields. 90g:14010
- de Shalit, Ehud A formula for the cup product on Mumford curves. 90k:14017
- Van Steen, Guido The Schottky-Jung theorem for Mumford curves. (French summary) 90i:14023
- Zabrodin, A. V. see Chekhov, L. O.; et al., 90k:14016
- Items with secondary classifications in 14G20
- Brown, Martin Lawrence Construction de hauteurs locales et globales sur les variétés algébriques. (English summary) [Construction of local and global heights on algebraic varieties] 90a:11068
- Chekhov, L. O. (with Mironov, A. D.; Zabrodin, A. V.) Multiloop calculus in p -adic string theory and Bruhat-Tits trees. 90j:81178
- Chiarellotto, Bruno Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p -adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p -adic cohomologies] 90e:14012
- A comparison theorem in p -adic cohomology. 90i:14020
- Douai, Jean-Claude Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps locaux de dimension N . [The Tate-Poitou theorem for function fields of curves defined over N -dimensional local fields] 90m:11095
- Fishman, V. M. On the structure of the Tate module. 90k:11073
- Frampton, P. H. (with Nishino, Hitoshi) Theory of p -adic closed strings. 90e:81178
- Freije, Richard M. A p -adic analogue of the Gauss-Bonnet theorem for certain Mumford curves. 90e:11089
- García, Arnaldo The curves $y^n = f(x)$ over finite fields. 90m:14014
- Grossman, Bernard Membranes in string theory, trees, the Weil conjectures, and the Ramanujan numbers. 90b:14028
- Henniart, Guy (with Mestre, J.-F.) Moyenne arithmético-géométrique p -adique. (English summary) [The p -adic arithmetic-geometric mean] 90g:11075
- Hyodo, Osamu On variation of Hodge-Tate structures. 90i:14019
- Igusa, Jun-ichi b -functions and p -adic integrals. 90i:11140
- Keating, Kevin Lifting endomorphisms of formal A -modules. 90e:14048
- Manin, Yu. I. Reflections on arithmetical physics. 90m:11195
- Mestre, J.-F. see Henniart, Guy, 90g:11075
- Mironov, A. D. see Chekhov, L. O.; et al., 90j:81178
- Nishino, Hitoshi see Frampton, P. H., 90e:81178
- van der Put, M. Uniformisation p -adique. [p -adic uniformization] 90e:11090
- Reversat, Marc Construction analytique (rigide) de variétés abéliennes. [Rigid analytic construction of abelian varieties] 90g:14028
- Saito, Takeshi The discriminants of curves of genus 2. 90e:11041
- Sen, Shankar The analytic variation of p -adic Hodge structure. 90b:11062
- de Shalit, Ehud Eichler cohomology and periods of modular forms on p -adic Schottky groups. 90j:11042
- Zabrodin, A. V. see Chekhov, L. O.; et al., 90j:81178

14G25 Global ground fields

- Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] 90m:14016
- Gillet, Henri (with Soule, Christophe) Amplitude arithmétique. (English summary) [Arithmetic amplitudes] 90a:14028
- Parshin, A. N. The Bogomolov-Miyaoka-Yau inequality for the arithmetical surfaces and its applications. 90m:14017
- Shioda, Tetsuji Frey's elliptic curve as an elliptic surface over the Fermat curve. 90i:14024
- Soulé, Christophe see Gillet, Henri, 90a:14028
- Items with secondary classifications in 14G25
- Asada, Mamoru Indistinguishability of conjugacy classes of the pro- l mapping class group. 90b:14015
- Beukers, F. (with Top, Jaap) On oranges and integral points on certain plane cubic curves. 90b:11046
- Brown, Martin Lawrence Construction de hauteurs locales et globales sur les variétés algébriques. (English summary) [Construction of local and global heights on algebraic varieties] 90a:11068

- Cipra, Barry A. Getting a grip on elliptic curves. 90e:11092
- Colliot-Thélène, Jean-Louis (with Salberger, Per) Arithmetic on some singular cubic hypersurfaces. 90e:11091
- Frey, Gerhard Links between solutions of $A - B = C$ and elliptic curves. 90g:11069
- Gross, Benedict H. Local orders, root numbers, and modular curves. 90b:11053
- Henniart, Guy Cyclotomie et valeurs de la fonction Γ (d'après G. Anderson). [Cyclotomy and values of the Γ -function (following G. Anderson)] 90i:11055
- Hindry, M. Minoration de hauteurs et analyse diophantienne sur les courbes elliptiques. [Bounding heights from below and Diophantine analysis on elliptic curves] (see 90j:11004)
- Ihara, Yasutaka The Galois representation arising from $P^1 - \{0, 1, \infty\}$ and Tate twists of even degree. 90k:11067
- Janussen, Uwe On the Galois cohomology of l -adic representations attached to varieties over local or global fields. 90e:14010
- On the l -adic cohomology of varieties over number fields and its Galois cohomology. 90i:11064
- Kamienny, S. p -torsion in elliptic curves over subfields of $\mathbb{Q}(\mu_p)$. 90a:11061
- Kolyagin, V. A. The Mordell-Weil and Shafarevich-Tate groups for Weil elliptic curves. 90f:11035
- Manin, Yu. I. Letter to the editors: "Rational points on algebraic curves over function fields" [Izv. Akad. Nauk SSSR Ser. Mat. 27 (1963), 1397-1442; MR 28 #1199]. 90f:11039
- Mestre, J.-F. (with Oesterlé, J.) Courbes de Weil semi-stables de discriminant une puissance m -ième. [Semistable Weil curves with discriminant an m th power] 90g:11078
- Mincher, Kh. P. Strong approximation for varieties over an algebraic number field. (Russian. English summary) 90a:11065
- Moret-Bailly, Laurent Groupes de Picard et problèmes de Skolem. I, II. [Picard groups and Skolem problems. I, II] 90i:11065
- Müller, Hans Helmut (with Ströher, Harald; Zimmer, Horst G.) Complete determination of all torsion groups of elliptic curves with integral absolute invariant over quadratic and pure cubic fields. 90m:11086
- Murty, M. Ram Recent developments in elliptic curves. 90f:11036
- Oesterlé, J. Nouvelles approches du "théorème" de Fermat. [New approaches to Fermat's "theorem"] 90g:11038
- see also Mestre, J.-F., 90g:11078
- Saito, Shuji Arithmetic theory of arithmetic surfaces. 90f:11043
- Salberger, Per see Colliot-Thélène, Jean-Louis, 90e:11091
- Silverman, Joseph H. Rational points on certain families of curves of genus at least 2. 90a:11067
- Ströher, Harald see Müller, Hans Helmut; et al., 90m:11086
- Top, Jaap A remark on the rank of Jacobians of hyperelliptic curves over \mathbb{Q} over certain elementary abelian 2-extensions. 90g:11079
- see also Beukers, F., 90b:11046
- Vojta, Paul A refinement of Schmidt's subspace theorem. 90f:11054
- Mordell's conjecture over function fields. 90k:11076
- Zimmer, Horst G. see Müller, Hans Helmut; et al., 90m:11086

14G30 Real ground fields [see also 32C05. Must also be assigned at least one other number referring to the specific type of problem considered]

- Bochnak, J. (with Coste, M.; Roy, M.-F.) ★ Géométrie algébrique réelle. (French) [Real algebraic geometry] 90b:14030
- (with Kucharz, W.) On real-algebraic models of smooth manifolds. 90a:14029
- (with Kucharz, W.) K -theory of real algebraic surfaces and threefolds. 90k:14018
- Brumfiel, G. W. A semi-algebraic Brouwer fixed point theorem for real affine space. 90k:14019
- Buchner, M. A. (with Kucharz, W.) On relative real holomorphy rings. 90i:14025
- Coste, M. see Bochnak, J.; et al., 90b:14030
- Cucker, Felipe Nash functions over real spectra. 90i:14026
- Huber, Roland The Zariski closure of semialgebraic subsets of complex varieties. 90k:14020
- Jadda, Zoubida Constructions de places réelles et géométrie semi-algébrique. [Constructions of real places and semi-algebraic geometry] 90e:14021
- Kharlamov, V. M. (with Viro, O. Ya.) Extensions of the Gudkov-Rohlin congruence. 90a:14030
- Knebusch, Manfred ★ Weakly semialgebraic spaces. 90j:14027
- Kucharz, W. How to make vector bundles algebraic. 90m:14018
- A note on the Dubois-Efroymsen dimension theorem. 90d:14024
- Symplectic bilinear forms on affine real algebraic surfaces. 90e:14022
- Symplectic complex bundles over real algebraic four-folds. 90k:14021
- Sums of $2n$ th powers of real meromorphic functions. 90f:14013
- see also Bochnak, J., 90a:14029; Buchner, M. A., 90i:14025 and Bochnak, J., 90k:14018
- Madden, James J. Pierce-Birkhoff rings. 90m:14019
- Marinari, Maria Grazia Algebraic aspects of real geometry. (Italian) 90a:14031
- Robson, Robert O. Local semianalytic geometry. 90k:14022
- Roy, M.-F. see Bochnak, J.; et al., 90b:14030
- Schneider, Claus Stability index of real varieties. 90g:14011
- Quotients of semi-algebraic spaces. 90i:14027
- Schwartz, Niels The basic theory of real closed spaces. 90a:14032
- Shustin, E. I. New M - and $(M-1)$ -curves of degree 8. 90a:14033
- Stengle, Gilbert A measure for semialgebraic sets related to Boolean complexity. 90b:14031
- Suvorov, P. Isotopic but not rigidly isotopic plane systems of straight lines. 90a:14034
- Viro, O. Ya. see Kharlamov, V. M., 90a:14030

Items listed otherwise than by author

Conference:

- Quadratic Forms and Real Algebraic Geometry ★ Quadratic forms and real algebraic geometry. 90j:14028
- Corvallis, OR ★ Quadratic forms and real algebraic geometry. 90j:14028

Quadratic forms and real algebraic geometry ★ Quadratic forms and real algebraic geometry.

90b:14028

Real algebraic geometry ★ Jitsu daishu kika. [Real algebraic geometry] 90b:14032

Symposium

Real Algebraic Geometry ★ Jitsu daishu kika. [Real algebraic geometry] 90b:14032

Items with secondary classifications in 14G30

Arnberg, Stefan (with Feng, Huichun) Algebraic decomposition of regular curves.

90a:58042

Arnol'd, V. I. Spaces of functions with moderate singularities. (Russian) 90m:58016

Becker, Eberhard (with Gondard, Danielle) On rings admitting orderings and 2-primary

chains of orderings of higher level. 90b:11033

Brunfiel, G. W. The real spectrum compactification of Teichmüller space. 90b:32042

Bujalance, E. (with Etayo Gordejuela, José Javier; Gamboa, J. M.; Martens, Gerriet)

Minimal genus of Klein surfaces admitting an automorphism of a given order. 90b:30052

Etayo Gordejuela, José Javier see Bujalance, E.; et al., 90b:30052

Feng, Huichun see Arnberg, Stefan, 90a:58042

Fiedler, Thomas Real points on complex plane curves. 90b:14022

Fortuna, Elisabetta (with Galbiati, Margherita) Séparation de semi-algébriques. (English

summary) [Separation of semi-algebraic sets] 90b:32025

Galbiati, Margherita see Fortuna, Elisabetta, 90b:32025 and Real analytic and algebraic

geometry, 90b:32001

Gambos, J. M. see Bujalance, E.; et al., 90b:30052

Gondard, Danielle see Becker, Eberhard, 90b:11033

Knebusch, Manfred (with Scheiderer, Claus) ★ Einführung in die reelle Algebra. (German)

[Introduction to real algebra] 90m:12005

Korchagin, A. B. (with Shustin, E. I.) Sixth-degree affine curves and smoothings of a

nondegenerate sixth-order singular point. 90b:14043

Kucharz, W. Invertible ideals in real holomorphy rings. 90j:12002

Lam, K. Y. (with Yiu, P. Y. H.) Geometry of normed bilinear maps and the 16-square

problem. 90g:11047

Leahy, John V. (with Leahy, John V., IV) Real Hilbert rings and the real nullstellensatz.

90d:12001

Leahy, John V., IV see Leahy, John V., 90d:12001

Li, Zi Sheng Real projective algebraic manifolds with a foliation. (Chinese. English

summary) (Not in MR)

Martens, Gerriet see Bujalance, E.; et al., 90b:30052

Masv, N. E. The universality theorems on the classification problem of configuration

varieties and convex polytopes varieties. 90a:52013

Natanson, S. M. Finite groups of homeomorphisms of surfaces, and real forms of complex

algebraic curves. (Russian) 90b:14038

— Prymians of real curves and their applications to the effectivization of Schrödinger

operators. 90b:14031

Ramanakoraisina, Rodolphe Bezout theorem for Nash functions. 90j:58006

Savel'ev, I. V. Polyhedra and algebraic sets. 90b:55035

Scheiderer, Claus see Knebusch, Manfred, 90m:12005

Scowcroft, Philip Some continuous Positivstellensätze. 90b:12005

Seppälä, Mika (with Silhol, R.) Moduli spaces for real algebraic curves and real abelian

varieties. 90b:14043

Shustin, E. I. see Korchagin, A. B., 90b:14043

Silhol, R. see Seppälä, Mika, 90b:14043

Simon, Odile Aspects quantitatifs de Nullstellensätze et de Positivstellensätze. Nombres de

Pythagore. [Quantitative aspects of Nullstellensätze and Positivstellensätze. Pythagorean

numbers] 90f:11024

(Tognoli, A.) see Real analytic and algebraic geometry, 90b:32001

Viro, O. Ya. Some integral calculus based on Euler characteristic. 90a:57029

Wu, Wen Jun A mechanization method of geometry and its applications. III. Mechanical

proving of polynomial inequalities and equation-solving. 90g:03012

Yiu, P. Y. H. see Lam, K. Y., 90g:11047

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Conference:

Real Analytic and Algebraic Geometry ★ Real analytic and algebraic geometry.

90b:32001

Lecture Notes in Mathematics ★ Real analytic and algebraic geometry. 90b:32001

Real analytic and algebraic geometry ★ Real analytic and algebraic geometry. 90b:32001

Trento ★ Real analytic and algebraic geometry. 90b:32001

14G99 None of the above, but in this section

Kang, Ming Chang Constructions of Brauer-Severi varieties and norm hypersurfaces.

90j:14029

Items with secondary classifications in 14G99

Drinfel'd, V. G. On my paper: "Cohomology of compactified moduli varieties of F -sheaves

of rank 2" [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI) 162 (1987),

Avtorizirov. Funkts. i Teor. Chisl. III, 107-158; MR 89b:11050]. (Russian) 90b:11072

Marker, David Semialgebraic expansions of C . 90b:03034

Umemura, Hiroshi On classical numbers. (Japanese) 90j:11099

14Hxx Curves

Fulton, William ★ Algebraic curves. 90b:14023

Griffiths, Phillip A. ★ Introduction to algebraic curves. 90b:14028

(Weiss, Richard) see Fulton, William, 90b:14023

(Weltin, Kuniko) see Griffiths, Phillip A., 90b:14028

Yang, Kichoon ★ Compact Riemann surfaces and algebraic curves. 90b:14023

Items with secondary classifications in 14Hxx

(Ballico, Edoardo) see Problems: Algebraic geometry, 90j:14001

(Ciliberto, Ciro) see Problems: Algebraic geometry, 90j:14001

Reyns, E. ★ Quelques aspects des surfaces de Riemann. (French) [Some aspects of

Riemann surfaces] 90b:30085

Items listed otherwise than by author

Problems:

Algebraic geometry Open problems. 90j:14001

14H05 Algebraic functions [see also 14K20, 32G20]

Abhyankar, Shreeram S. (with Bajaj, Chanderjit) Automatic parameterization of rational

curves and surfaces. III. Algebraic plane curves. 90b:14033

Bajaj, Chanderjit see Abhyankar, Shreeram S., 90b:14033

García, Arnaldo On Weierstrass points on certain elementary abelian extensions of $k(x)$.

90m:14020

Items with secondary classifications in 14H05

Paranjape, Kapil (with Ramanan, S.) On the canonical ring of a curve. 90b:14024

Ramanan, S. see Paranjape, Kapil, 90b:14024

Turnbull, R. W. see Wood, D. W., 90a:82081

Wood, D. W. (with Turnbull, R. W.) $z^2 - 11z - 1$ as an algebraic invariant for the hard-

hexagon model. 90a:82081

14H10 Families, moduli (algebraic)

Ballico, Edoardo Theta-characteristics on curves in characteristic two. 90m:14021

— (with Elia, Ph.) On the existence of curves with maximal rank in P^2 . 90b:14033

Coppens, Marc Weierstrass points on trigonal curves. I. The ramification points. 90b:14012

Cornalba, Maurizio The singular locus of the moduli space of curves. (Italian. English

summary) 90j:14030

Cukierman, Fernando Families of Weierstrass points. 90g:14013

Eisenbud, David (with Harris, Joseph Daniel) Irreducibility of some families of linear series

with Brill-Noether number. I. 90a:14035

— (with Harris, Joseph Daniel) Progress in the theory of complex algebraic curves.

90d:14025

Elia, Ph. Sur les lacunes d'Halphen. [On the Halphen lacunae] 90j:14031

— see also Ballico, Edoardo, 90b:14033

Faber, Carel F. Some results on the codimension-two Chow group of the moduli space of

stable curves. 90j:14032

Harris, Joseph Daniel see Eisenbud, David, 90a:14035 and 90d:14025

Hirschowitz, André La rationalité des schémas de Hilbert de courbes gauches rationnelles

suivant Katsylo. [The rationality of the Hilbert schemes of rational space curves,

following Katsylo] 90j:14033

Kang, Pyung-Lynn On the variety of plane curves of degree d with δ nodes and κ cusps.

90j:14014

Mezzetti, Emilia (with Sacchiero, Gianni) Gonality and Hilbert schemes of smooth curves.

90j:14034

Pareschi, Giuseppe Components of the Hilbert scheme of smooth space curves with the

expected number of moduli. 90a:14036

Ran, Z. Families of plane curves and their limits: Enriques' conjecture and beyond.

90b:14024

Sacchiero, Gianni see Mezzetti, Emilia, 90j:14034

Sekiguchi, Tsutomu How coarse the moduli spaces for curves are! 90d:14026

Shepherd-Barron, N. I. Apolarity and its applications. 90b:14029

Treger, Robert Plane curves with nodes. 90d:14027

Items with secondary classifications in 14H10

Ballico, Edoardo The bound of the genus for reducible curves. 90b:14017

— Postulation and gonality for projective curves. 90b:14033

— On the Hilbert scheme of curves in a smooth quadric. 90d:14005

Barth, Wolf (with Moore, Ross) On rational plane sextics with six tritangents. 90b:14018

Ciliberto, Ciro (with Geramita, A. V.; Orecchia, Ferruccio) Remarks on a theorem of

Hilbert-Burch. (Italian summary) 90a:13037

Debarre, Olivier Sur le problème de Torelli pour les variétés de Prym. [The Torelli problem

for Prym varieties] 90b:14035

Geramita, A. V. see Ciliberto, Ciro; et al., 90a:13037

Greco, Silvio Remarks on the postulation of zero-dimensional subschemes of projective

space. 90f:14002

Griffiths, Phillip A. ★ Introduction to algebraic curves. 90b:14028

Kleppe, Jan O. Liaison of families of subschemes in P^3 . 90m:14011

Libgober, A. Invariants of plane algebraic curves via representations of the braid groups.

90b:14038

Miret, J. M. (with Xambó-Descamps, S.) Geometry of complete cuspidal plane cubics.

90b:14059

Moore, Ross see Barth, Wolf, 90b:14018

Orecchia, Ferruccio see Ciliberto, Ciro; et al., 90a:13037

Ran, Z. Enumerative geometry of singular plane curves. 90g:14039

Rego, C. J. Deformation of modules on curves and surfaces. 90a:14009

Seppälä, Mika (with Silhol, R.) Moduli spaces for real algebraic curves and real abelian

varieties. 90b:14043

Shepherd-Barron, N. I. Invariant theory for S_3 and the rationality of M_6 . 90b:14058

Silhol, R. see Seppälä, Mika, 90b:14043

(Weltin, Kuniko) see Griffiths, Phillip A., 90b:14028

Xambó-Descamps, S. see Miret, J. M., 90b:14059

14H15 Families, moduli (analytic) [see also 30F10, 32G15, 32G20]

Arbarello, Enrico Riemann surfaces, theta functions and representations. (Italian)

90c:14025

- Catepillán, Ximena Riemann matrix of a surface of genus 2. (Spanish. English summary) 90e:14026
- Harvey, W. J. Modular groups and representation spaces. 90a:14037
- Kato, Takao Subspaces of trigonal Riemann surfaces. 90e:14013
- Mukhi, Sunil An introduction to Riemann surfaces for physicists. (see 90f:81011)
- Mulase, Motoshio KP equations, strings, and the Schottky problem. 90h:14034
- Semikhatov, A. M. A bosonic operator realization of the Krichever construction and \hbar -systems on Riemann surfaces. 90e:14027
- Smit, Dirk-Jan Algebraic and arithmetic geometry in string theory. 90e:14014
- Ueno, Kimio (with Yamada, Hirofumi) Some observations on geometric representations of the superconformal algebras and a super analogue of the Mumford sheaves. 90d:14028
- Yamada, Hirofumi see Ueno, Kimio, 90d:14028
- Zahrodin, A. V. Fermions on a Riemann surface and the Kadomtsev-Petviashvili equation. 90h:14035

Items with secondary classifications in 14H15

- Alvarez Gaumé, Luis (with Gómez, César; Reina, C.) New methods in string theory. 90j:81163a
- (with Gómez, César; Reina, C.) New methods in string theory. 90j:81163b
- Bagger, Jonathan Strings and Riemann surfaces. 90k:81179
- Beilinson, A. A. (with Shekhtman, V. V.) Determinant bundles and Virasoro algebras. 90m:32048
- Bost, Jean-Benoît Fibrés déterminants, déterminants régularisés et mesures sur les espaces de modules des courbes complexes. [Determinant bundles, regularized determinants and measures on the moduli spaces of complex curves] 90d:58142
- Campana, F. Geometric algebraicity of moduli spaces of compact Kähler symplectic manifolds. 90e:32023
- Cho, B. H. see Park, S. U., 90f:81123
- Coppens, Marc Weierstrass points on trigonal curves. I. The ramification points. 90g:14012
- Cornalba, Maurizio The bosonic string from an algebro-geometric standpoint. 90j:81182
- Crnković, Č. (with Sotkov, G.; Stanishkov, M.) Genus-two partition functions for superconformal minimal models. 90f:81106
- Gómez, César see Alvarez Gaumé, Luis; et al., 90j:81163a and 90j:81163b
- Greuel, Gert-Martin (with Karras, Ulrich) Families of varieties with prescribed singularities. 90d:32037
- Harer, John L. The cohomology of the moduli space of curves. 90a:32026
- Holzapfel, R.-P. An arithmetic uniformization for arithmetic points of the plane by singular moduli. 90j:11054
- Karras, Ulrich see Greuel, Gert-Martin, 90d:32037
- Killingback, T. P. Quantum Yang-Mills theory on Riemann surfaces and conformal field theory. 90e:53080
- Klimek, Sławomir (with Lesniewski, Andrzej) Global Laurent expansions on Riemann surfaces. 90j:30071
- La, HoSeong Cosmological constants and $SL(2, \mathbb{C})$. 90d:81115
- Lechtenfeld, Olaf Three-loop vanishing of the superstring cosmological constant. 90f:81132
- Lesniewski, Andrzej see Klimek, Sławomir, 90j:30071
- (McArthur, I. N.) see Schlichenmaier, Martin, 90e:32033
- Meissner, K. A. (with Pokorski, S.) Polyakov bosonic strings. 90a:81149
- Mortis, Shigeyuki Families of Jacobian manifolds and characteristic classes of surface bundles. II. 90a:57041
- Morozov, A. Yu. On the two-loop contribution to the superstring four-point function. 90f:81138
- Point-wise vanishing of two-loop contributions to 1, 2, 3-point functions in the NSR formalism. 90k:81229
- Park, S. U. (with Cho, B. H.) The Riemann problem and the sewing of two discs. 90f:81123
- Parkes, Andrew The two loop superstring vacuum amplitude and canonical divisors. 90k:81238
- Pokorski, S. see Meissner, K. A., 90a:81149
- Reina, C. see Alvarez Gaumé, Luis; et al., 90j:81163a and 90j:81163b
- Schlichenmaier, Martin ★ An introduction to Riemann surfaces, algebraic curves and moduli spaces. 90e:32033
- Segal, G. B. The definition of conformal field theory. 90d:58026
- Shekhtman, V. V. see Beilinson, A. A., 90m:32048
- Shvarts, A. S. Fermionic string and universal moduli space. 90d:58063
- Smith, Roy Campbell (with Tapia-Recillas, H.) On curves of genus 7. (Spanish) 90a:14042
- Sonoda, Hidenori Sewing conformal field theories. I, II. 90f:81127
- Sotkov, G. see Crnković, Č.; et al., 90f:81106
- Stanishkov, M. see Crnković, Č.; et al., 90f:81106
- Takhtadzhyan, L. A. see Zograf, P. G., 90j:32033
- Tapia-Recillas, H. see Smith, Roy Campbell, 90a:14042
- Zamolodchikov, Aleksandr B. Vacuum Ward identities for higher genera. 90f:81133
- Zograf, P. G. (with Takhtadzhyan, L. A.) The geometry of moduli spaces of vector bundles over a Riemann surface. 90j:32033
- Zucchini, R. A geometrical framework for twisted conformal field theory on Riemann surfaces. 90g:32027

14H20 Singularities, local rings [see also 13Hxx]

- Campillo López, Antonio (with Delgado de la Mata, Félix; Núñez Jiménez, Carolina A.) The arithmetic of Arf and saturated semigroups. Applications. (Spanish. English summary) 90d:14029
- Canonero, Gabriella On the inflexion points of quadrics with biflexnodes and a tacnode. (Italian. English summary) 90d:14030
- Carbone, P. Sur la classification des branches. [On the classification of branches] 90m:14022
- Delgado de la Mata, Félix see Campillo López, Antonio; et al., 90d:14029
- Gerd, V. P. (with Kostov, N. A.; Kostova, Z. T.) Computer algebra and computation of Puiseux expansions of algebraic functions. 90m:14023

- Granja Barón, Angel (with Sánchez-Giralda, T.) Enriques diagram of a plane algebroid branch and classification of singularities. (Spanish) 90d:14031
- Kostov, N. A. see Gerd, V. P.; et al., 90m:14023
- Kostova, Z. T. see Gerd, V. P.; et al., 90m:14023
- Libgober, A. Invariants of plane algebraic curves via representations of the braid groups. 90a:14038
- Michel, Françoise Courbes polaires pour les singularités de type "arbre de Noël". (English summary) [Polar curves for "Christmas-tree" singularities] 90e:14015
- Núñez Jiménez, Carolina A. Algebro-geometric properties of saturated rings. 90h:14036
- see also Campillo López, Antonio; et al., 90d:14029
- Orevkov, S. Yu. The fundamental group of the complement of a plane algebraic curve. 90j:14028
- Perkins, Patrick T. Commutative subalgebras of the ring of differential operators on a curve. 90j:14035
- Sánchez-Giralda, T. see Granja Barón, Angel, 90d:14031
- Sundet, Knut Lage Noether's theorem. 90e:14029
- Yoshihara, Hisao A note on the existence of some curves. 90a:14039

Items with secondary classifications in 14H20

- Ballico, Edoardo On singular curves in the case of positive characteristic. 90h:14042
- Diaz, Steven Irreducibility of the equiclassical locus. 90c:14002
- Goze, Michel (with Lutz, Robert) Représentation paramétrique locale des courbes planes. [Local parametric representation of plane curves] 90m:14003
- Granja Barón, Angel Apéry basis and polar invariants of plane curve singularities. 90j:14006
- Greuel, Gert-Martin (with Kröning, H.) Simple singularities in positive characteristic. 90k:14001
- Kang, Pyung-Lyun On the variety of plane curves of degree d with δ nodes and κ cusps. 90j:14014
- Kröning, H. see Greuel, Gert-Martin, 90k:14001
- Lutz, Robert see Goze, Michel, 90m:14003
- Marster, Bernd (with Pfister, Gerhard) Singularities of moduli spaces. 90m:14004
- Pfister, Gerhard see Martin, Bernd, 90m:14004
- Pohl, Thomas Cornelius Torsion des Differentialmoduls von Kurvensingularitäten mit maximaler Hilbertfunktion. [Torsion of the module of differentials of curve singularities with maximal Hilbert function] 90a:13040
- Ran, Z. Families of plane curves and their limits: Enriques' conjecture and beyond. 90e:14024
- Teitelbaum, Jeremy The computational complexity of the resolution of plane curve singularities. 90j:14007
- Treger, Robert Plane curves with nodes. 90d:14027
- Urabe, Toshuke Dynkin graphs and combinations of singularities on plane sextic curves. 90j:14035
- Weber, Claude A topological interpretation for the polar quotients of an algebraic plane curve singularity. 90d:32017

14H25 Arithmetic ground fields [see also 11Dxx, 14Gxx]

- Shabat, G. B. see Voevodskii, V. A., 90e:14030
- Ueno, Kenji Discriminants of curves of genus 2 and arithmetic surfaces. 90a:14040
- Voevodskii, V. A. (with Shabat, G. B.) Equilateral triangulations of Riemann surfaces, and curves over algebraic number fields. 90e:14030

Items with secondary classifications in 14H25

- Coleman, Robert F. Computing stable reductions. 90h:11050
- Harbater, David Galois covers of an arithmetic surface. 90e:14013
- Kohno, Toshitake (with Oda, Takayuki) The lower central series of the pure braid group of an algebraic curve. 90a:14026
- Núñez Jiménez, Carolina A. Algebro-geometric properties of saturated rings. 90h:14036
- Oda, Takayuki see Kohno, Toshitake, 90a:14026
- Parshin, A. N. The Bogomolov-Miyaoka-Yau inequality for the arithmetical surfaces and its applications. 90m:14017
- Application of ramified coverings in the theory of Diophantine equations. 90j:11055
- Saito, Takeshi The discriminants of curves of genus 2. 90c:11041
- Sekiguchi, Tsutomu see Sekino, Kaoru, 90d:14032
- Sekino, Kaoru (with Sekiguchi, Tsutomu) On the fields of definition for a curve and its Jacobian variety. 90d:14032
- Shioda, Tetsuji Arithmetic and geometry of Fermat curves. 90a:11037
- Silverman, Joseph H. Rational points on certain families of curves of genus at least 2. 90a:11067
- Vojta, Paul Dyson's lemma for products of two curves of arbitrary genus. 90k:11075
- Mordell's conjecture over function fields. 90k:11076

14H30 Coverings, fundamental group

- Dzhurav, O. Construction of the field of algebraic functions that corresponds to an n -sheeted covering of a sphere. (Russian) 90e:14031
- Kimura, Hideyuki see Kuribayashi, Akiyazu, 90k:14024
- Kuribayashi, Akiyazu (with Kimura, Hideyuki) On Rauch's conjecture. (Japanese. English summary) 90k:14024

Items with secondary classifications in 14H30

- Asada, Mamoru Indistinguishability of conjugacy classes of the pro- l mapping class group. 90b:14015
- Beckmann, Sybilla Galois groups of fields of definition of solvable branched coverings. 90d:14015
- Ramified primes in the field of moduli of branched coverings of curves. 90i:11063
- Coleman, Robert F. Torsion points on abelian étale coverings of $\mathbb{P}^1 - \{0, 1, \infty\}$. 90a:11064
- Debarre, Olivier Sur les variétés de Prym des courbes tétraogales. [Prym varieties of tetragonal curves] 90b:14034

- Sur le problème de Torelli pour les variétés de Prym. [The Torelli problem for Prym varieties] 90b:14035
- Fried, Michael D. Combinatorial computation of moduli dimension of Nielsen classes of covers. 90j:12007
- (with Völklein, Helmut) Unramified abelian extensions of Galois covers. 90j:14018
- Ihara, Yasutaka Arithmetic analogues of braid groups and Galois representations. 90b:11105
- Kaneko, Masanobu Certain automorphism groups of pro- l fundamental groups of punctured Riemann surfaces. 90j:14019
- Katsarkov, L. V. (with Orlov, D. O.) Prym varieties of hyperelliptic curves and their applications to nonlinear equations. (Russian) 90k:14026
- Masterston, John T. Branched affine and projective structures on compact Riemann surfaces. 90b:30051
- Orlov, D. O. see Katsarkov, L. V., 90k:14026
- Salvetti, Mario On the homotopy type of the complement to an arrangement of lines in \mathbb{C}^2 . (Italian summary) 90b:32025
- Shabat, G. B. see Voevodskii, V. A., 90k:14030
- Sühr, Karl-Otto (with Viana, Paulo) A study of Hasse-Witt matrices by local methods. 90d:11074
- Verdier, Jean-Louis New elliptic solitons. 90g:58053
- Viana, Paulo see Sühr, Karl-Otto, 90d:11074
- Voevodskii, V. A. (with Shabat, G. B.) Equilateral triangulations of Riemann surfaces, and curves over algebraic number fields. 90k:14030
- Völklein, Helmut see Fried, Michael D., 90j:14018

14H35 Correspondences [see also 14Exx]

- Kaji, Hajime On the Gauss maps of space curves in characteristic p . 90k:14032
- Martens, Henrik H. Mappings of closed Riemann surfaces. 90k:14030
- Items with secondary classifications in 14H35
- Kani, E. (with Rosen, Michael I.) Idempotent relations and factors of Jacobians. 90b:14057
- Rosen, Michael I. see Kani, E., 90b:14057

14H40 Jacobians [see also 32G20]

- Debarre, Olivier Sur les variétés de Prym des courbes tétraogonales. [Prym varieties of tetragonal curves] 90b:14034
- Sur le problème de Torelli pour les variétés de Prym. [The Torelli problem for Prym varieties] 90b:14035
- Donagi, Ron The Schottky problem. 90a:14041
- van der Geer, Gerard On rank-1 degenerations of abelian varieties. 90k:14025
- Gunning, R. C. Analytic identities for theta functions. 90g:14015
- Katsarkov, L. V. (with Orlov, D. O.) Prym varieties of hyperelliptic curves and their applications to nonlinear equations. (Russian) 90k:14026
- Kempf, George R. Notes of the inversion of integrals. I. 90k:14037a
- Notes on the inversion of integrals. II. 90k:14037b
- Little, John B. Translation manifolds and the Schottky problem. 90m:14024
- Muñoz Perras, José M. Geometric characterization of Jacobians and the Schottky equations. 90j:14036
- Natanzon, S. M. Prymians of real curves and their applications to the effectivization of Schrödinger operators. 90b:14031
- Orlov, D. O. see Katsarkov, L. V., 90k:14026
- Pirela, Gian Pietro On the Néron-Severi groups of the surfaces of special divisors. 90j:14037
- Sekiguchi, Tsutomu see Sekino, Kaoru, 90d:14032
- Sekino, Kaoru (with Sekiguchi, Tsutomu) On the fields of definition for a curve and its Jacobian variety. 90d:14032
- Smith, Roy Campbell (with Tapia-Recillas, H.) On curves of genus 7. (Spanish) 90a:14042
- (with Varley, Robert) Deformations of singular points on theta divisors. 90k:14016
- Tapia-Recillas, H. see Smith, Roy Campbell, 90a:14042
- Treiblich, Armando Courbes elliptiques tracées sur une jacobienne généralisée. (English summary) [Elliptic curves in generalized Jacobians] 90a:14043
- Varley, Robert see Smith, Roy Campbell, 90g:14016
- Items with secondary classifications in 14H40
- Beauville, Arnaud (with Debarre, Olivier; Donagi, Ron; van der Geer, Gerard) Sur les fonctions thêta d'ordre deux et les singularités du diviseur thêta. (English summary) [On second-order theta functions and the singularities of the theta divisor] 90b:14053
- Belokobos, E. D. (with Enol'skii, V. Z.) Verdier's elliptic solitons and the Weierstrass reduction theory. 90b:14059
- Breen, L. The cube structure on the determinant bundle. 90k:14047
- Coleman, Robert F. Torsion points on abelian étale coverings of $\mathbb{P}^1 - \{0, 1, \infty\}$. 90a:11064
- Debarre, Olivier see Beauville, Arnaud; et al., 90b:14053
- Donagi, Ron see Beauville, Arnaud; et al., 90b:14053
- Enol'skii, V. Z. see Belokobos, E. D., 90b:14059
- Ercolani, Nicholas (with Siggia, Eric D.) Painlevé property and geometry. 90i:58048
- Fay, John Schottky relations on $\frac{1}{2}(C - C)$. 90g:14026
- van der Geer, Gerard see Beauville, Arnaud; et al., 90b:14053
- Hulek, K. (with Weintraub, Steven H.) Bielliptic abelian surfaces. 90b:14052
- Kaney, V. I. (with Katsarkov, L. V.) Universal properties of Prym varieties of singular curves. 90d:14045
- Katsarkov, L. V. see Kaney, V. I., 90d:14045
- Khorozov, E. I. (with van Moerbeke, Pierre) The full geometry of Kowalewski's top and (1,2)-abelian surfaces. 90d:58053
- Martens, Henrik H. Mappings of closed Riemann surfaces. 90k:14030
- van Moerbeke, Pierre see Khorozov, E. I., 90d:58053
- Melase, Motohico KP equations, strings, and the Schottky problem. 90b:14034

- Schilling, Randolph James Generalizations of the Neumann system. A curve theoretical approach. II. 90g:58050
- Schoen, Chad Cyclic covers of \mathbb{P}^2 branched along $v + 2$ hyperplanes and the generalized Hodge conjecture for certain abelian varieties. 90m:14009
- Semikhatov, A. M. Bosonization, t -functions and operator formalism on Riemann surfaces. 90d:81118
- Sewing bc theories on Riemann surfaces in a bosonic operator formalism. 90d:81119
- Shiota, Takahiro The KP equation and the Schottky problem. (Japanese) 90d:58062
- Siggia, Eric D. see Ercolani, Nicholas, 90i:58048
- Top, Jaap A remark on the rank of Jacobians of hyperelliptic curves over \mathbb{Q} over certain elementary abelian 2-extensions. 90g:11079
- Van Steen, Guido The Schottky-Jung theorem for Mumford curves. (French summary) 90i:14023
- Verdier, Jean-Louis New elliptic solitons. 90g:58053
- Weintraub, Steven H. see Hulek, K., 90b:14052
- Yamawaki, Noriaki Explicit actions of the theta groups for theta divisors on Jacobian surfaces. 90j:14052

14H45 Special curves

- Amasaki, Mutsumi Curves in \mathbb{P}^3 whose ideals are simple in a certain numerical sense. 90i:14014
- Integral arithmetically Buchsbaum curves in \mathbb{P}^3 . 90k:14016
- Ballico, Edoardo The bound of the genus for reducible curves. 90k:14017
- Postulation and gonality for projective curves. 90k:14033
- A remark on linear series on general k -gonal curves. (Italian summary) 90f:14015
- (with Elia, Ph.) On projections of ruled and Veronese surfaces. 90f:14016
- (with Bolondi, Giorgio; Miró-Roig, Rosa M.) Numerical invariants of rank-2 arithmetically Buchsbaum sheaves. 90b:14038
- Barth, Wolf (with Moore, Ross) On rational plane sextics with six tritangents. 90k:14018
- Bolondi, Giorgio Minimal models of curves. (Italian) 90a:14044
- (with Migliore, J. C.) Buchsbaum liaison classes. 90g:14017
- see also Ballico, Edoardo; et al., 90b:14038
- Chiantini, Luca (with Orecchia, Ferruccio) Plane sections of arithmetically normal curves in \mathbb{P}^3 . 90j:14038
- Ciliberto, Ciro (with Sernesi, Edoardo) Curves on surfaces of degree $2r - \delta$ in \mathbb{P}^r . 90c:14019
- Coppens, Marc Smooth curves possessing many linear systems g_d^r . 90a:14045
- Craigheer, P. C. (with Gattazzo, R.) No rational nonsingular quartic curve $\mathbb{Q} \subset \mathbb{P}^3$ can be set-theoretically complete intersection on a cubic surface. (Italian summary) 90j:14039
- Delgado de la Mata, Félix The symmetry of the Weierstrass generalized semigroups and affine embeddings. 90a:14034
- Dolcetti, Alberto Halphen's gaps for space curves of submaximum genus. (French summary) 90k:14020
- Donagi, Ron (with Morrison, David R.) Linear systems on $K3$ -sections. 90a:14046
- Elia, Ph. see Ballico, Edoardo, 90f:14016
- Florentini, Mario (with Lascu, Alexandru T.) Subbundles of maximal degree of the normal bundle of algebraic space curves almost complete intersection of special type. (Italian summary) 90b:14036
- Gattazzo, R. see Craigheer, P. C., 90j:14039
- Geramita, A. V. (with Migliore, J. C.) Hyperplane sections of a smooth curve in \mathbb{P}^3 . 90b:14039
- (with Migliore, J. C.) Hyperplane sections of a smooth curve in \mathbb{P}^3 . 90k:14027
- (with Migliore, J. C.) Generators for the ideal of an arithmetically Buchsbaum curve. 90f:14017
- Gimigliano, Alessandro A construction of projectively normal curves. 90b:14040
- Giuffrida, Salvatore The Hilbert function of a curve lying on a smooth cubic surface. 90m:14025
- The Hilbert function of curves on certain smooth quartic surfaces. 90k:14032
- Hefez, Abramo Nonreflexive curves. 90k:14028
- Craigheer, P. C. (with Gattazzo, R.) No rational nonsingular quartic curve $\mathbb{Q} \subset \mathbb{P}^3$ can be set-theoretically complete intersection on a cubic surface. (Italian summary) 90j:14039
- Ida, Monica Maximal rank and minimal generation. 90f:14018
- Iitaka, Shigeru Classification of reducible plane curves. 90a:14047
- Lascu, Alexandru T. see Florentini, Mario, 90b:14036
- Laytimi, Fatima Courbes des trisécantes à une courbe elliptique lisse de \mathbb{P}^3 . (English summary) [The trisecant curve to a smooth elliptic curve in \mathbb{P}^3] 90f:14019
- Loose, Frank On the graded Betti numbers of plane algebraic curves. 90b:14041
- Maggioli, Renato (with Ragusa, Alfio) Construction of smooth curves of \mathbb{P}^3 with assigned Hilbert function and generators' degrees. 90k:14029
- Martens, Gerriet On curves on $K3$ surfaces. 90m:14026
- Migliore, J. C. see Geramita, A. V., 90f:14017; Bolondi, Giorgio, 90g:14017; Geramita, A. V., 90b:14039 and 90k:14027
- Miró-Roig, Rosa M. Some remarks on quasi-complete intersection space curves. (Italian summary) 90m:14027
- Unobstructed arithmetically Buchsbaum curves. 90j:14040
- On the theorem of Castelnuovo for Buchsbaum curves. 90f:14020
- see also Ballico, Edoardo; et al., 90b:14038
- Moore, Ross see Barth, Wolf, 90k:14018
- Morrison, David R. see Donagi, Ron, 90a:14046
- Orecchia, Ferruccio see Chiantini, Luca, 90j:14038
- Păscărescu, Ovidiu On the existence of algebraic curves in projective n -space. 90k:14021
- Ragusa, Alfio see Maggioli, Renato, 90k:14029
- Ramanan, S. Curves and their canonical imbeddings. 90a:14048
- Rathmann, Jürgen The genus of curves in \mathbb{P}^4 and \mathbb{P}^5 . 90i:14033
- Schreyer, Frank-Olaf Green's conjecture for general p -gonal curves of large genus. 90j:14041
- Sernesi, Edoardo see Ciliberto, Ciro, 90c:14019
- Strano, Rosario On the hyperplane sections of curves. (Italian. English summary) 90i:14034
- Urbat, Tetsuaki Dynkin graphs and combinations of singularities on plane sextic curves. 90c:14035

- Vestri, Nerina A noteworthy property of the rational skew quadric equipped with two stationary points. (Italian. English summary) 90b:14037
- Viana, Paulo Classically of trigonal curves of genus five. 90f:14021
- Vinnikov, Victor Determinantal representations of algebraic curves. 90c:14022
- Complete description of determinantal representations of smooth irreducible curves. 90m:14028

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- Abhyankar, Shreeram S. What is the difference between a parabola and a hyperbola? 90a:14074
- Aluffi, Paolo The characteristic numbers of smooth plane cubics. 90b:14066
- An-Yang, Helen (with McCoy, Barry M.; Perk, Jacques H. H.; Tang, Shuang) Solvable models in statistical mechanics and Riemann surfaces of genus greater than one. 90b:82059
- Ballico, Edoardo On the Hilbert scheme of curves in a smooth quadric. 90d:14005
- (with Lanteri, Antonio) An indecomposable rank-2 vector bundle the complete linear system of whose determinant consists of hyperelliptic curves. (Italian summary) 90j:14022
- On the order of projective curves. 90g:14004
- Bershadskii, M. A. (with Radul, A. O.) Conformal field theories with additional Z_N symmetry. 90c:81153
- Canonera, Gabriella On the inflexion points of quadrics with bitangents and a tacnode. (Italian. English summary) 90d:14030
- Coppens, Marc Weierstrass points on trigonal curves. I. The ramification points. 90g:14012
- Crković, Č. (with Sotkov, G.; Stanishkov, M.) Minimal models on hyperelliptic surfaces. 90d:81109
- Ferrarese, Giorgio (with Romagnoli, Daniela) Elliptic curves on the general hypersurface of degree 7 of P^4 . 90a:14058
- Hitchin, N. J. Harmonic maps from T^2 to S^3 . 90b:58051
- Kaji, Hajime On the Gauss maps of space curves in characteristic p . 90a:14032
- Kato, Takao Subspaces of trigonal Riemann surfaces. 90c:14013
- Lanteri, Antonio see Ballico, Edoardo, 90j:14022
- Lax, R. F. Normal higher Weierstrass points. 90f:14009
- McCoy, Barry M. see An-Yang, Helen; et al., 90b:82059
- Perk, Jacques H. H. see An-Yang, Helen; et al., 90b:82059
- Radul, A. O. see Bershadskii, M. A., 90c:81153
- Romagnoli, Daniela see Ferrarese, Giorgio, 90a:14058
- Shioda, Tetsuji Arithmetic and geometry of Fermat curves. 90a:11037
- Sotkov, G. see Crković, Č.; et al., 90d:81109
- Stanishkov, M. see Crković, Č.; et al., 90d:81109
- Sundet, Knut Lage Noether's theorem. 90c:14029
- Tang, Shuang see An-Yang, Helen; et al., 90b:82059
- Yoshihara, Hisao A note on the existence of some curves. 90a:14039

14H50 Space curves (use only for secondary classification) [see also 14H45]

Items with secondary classifications in 14H50

- Amanaki, Mutsumi Curves in P^3 whose ideals are simple in a certain numerical sense. 90f:14014
- Integral arithmetically Buchsbaum curves in P^3 . 90c:14016
- Ballico, Edoardo (with Bolondi, Giorgio; Miró-Roig, Rosa M.) Numerical invariants of rank-2 arithmetically Buchsbaum sheaves. 90b:14038
- (with Elia, Ph.) On the existence of curves with maximal rank in P^3 . 90b:14033
- (with Bolondi, Giorgio) Deficiency modules and specializations. 90d:14033
- Bolondi, Giorgio A note on the postulation of maximal rank curves. (French and Italian summaries) 90b:14021
- Minimal models of curves. (Italian) 90a:14044
- (with Migliore, J. C.) Configurations of linear projective subvarieties. 90f:14053
- (with Miró-Roig, Rosa M.) Two-codimensional Buchsbaum subschemes of P^4 via their hyperplane sections. 90m:14046
- (with Migliore, J. C.) Buchsbaum liaison classes. 90g:14017
- see also Ballico, Edoardo, 90d:14033 and 90h:14038
- Chiantini, Luca (with Orecchia, Ferruccio) Plane sections of arithmetically normal curves in P^3 . 90j:14038
- Craigheo, P. C. (with Gattazzo, R.) No rational nonsingular quartic curve $\mathcal{C}_4 \subset P^3$ can be set-theoretic complete intersection on a cubic surface. (Italian summary) 90j:14039
- Dolcetti, Alberto Halphen's gaps for space curves of submaximum genus. (French summary) 90c:14020
- Elia, Ph. Sur les lacunes d'Halphen. [On the Halphen lacunae] 90j:14031
- see also Ballico, Edoardo, 90b:14033
- Florentini, Mario (with Lasca, Alexandru T.) Subbundles of maximal degree of the normal bundle of algebraic space curves almost complete intersection of special type. (Italian summary) 90b:14036
- Gattazzo, R. see Craigheo, P. C., 90j:14039
- Geramita, A. V. (with Migliore, J. C.) Hyperplane sections of a smooth curve in P^3 . 90b:14039
- (with Migliore, J. C.) On the ideal of an arithmetically Buchsbaum curve. 90d:14053
- (with Migliore, J. C.) Hyperplane sections of a smooth curve in P^3 . 90k:14027
- (with Migliore, J. C.) Generators for the ideal of an arithmetically Buchsbaum curve. 90f:14017
- Giuffrida, Salvatore The Hilbert function of a curve lying on a smooth cubic surface. 90m:14025
- Greco, Silvio Remarks on the postulation of zero-dimensional subschemes of projective space. 90f:14002
- Hirschowitz, André La rationalité des schémas de Hilbert de courbes gauches rationnelles suivant Katsylo. [The rationality of the Hilbert schemes of rational space curves, following Katsylo] 90j:14033
- Huckaba, Sam Analytic spread modulo an element and symbolic Rees algebras. 90k:13006

- Ida, Monica Maximal rank and minimal generation. 90f:14018
- Jaffe, David B. On set theoretic complete intersections in P^3 . 90m:14048a
- Erratum: "On set theoretic complete intersections in P^3 ". 90m:14048b
- Lasca, Alexandru T. see Florentini, Mario, 90b:14036
- Laytimi, Fatima Courbe des trisécantes à une courbe elliptique lisse de P^3 . (English summary) [The trisecant curve to a smooth elliptic curve in P^3] 90f:14019
- Maggioli, Renato (with Ragusa, Alfio) Construction of smooth curves of P^3 with assigned Hilbert function and generators' degrees. 90k:14029
- Migliore, J. C. see Geramita, A. V., 90d:14053; 90f:14017; Bolondi, Giorgio, 90g:14017; Geramita, A. V., 90h:14039; Bolondi, Giorgio, 90i:14053 and Geramita, A. V., 90k:14027
- Miró-Roig, Rosa M. Some remarks on quasi-complete intersection space curves. (Italian summary) 90m:14027
- Unobstructed arithmetically Buchsbaum curves. 90j:14040
- On the theorem of Castelnuovo for Buchsbaum curves. 90f:14020
- see also Ballico, Edoardo; et al., 90h:14038 and Bolondi, Giorgio, 90m:14046
- Orecchia, Ferruccio see Chiantini, Luca, 90j:14038
- Pareschi, Giuseppe Components of the Hilbert scheme of smooth space curves with the expected number of moduli. 90a:14036
- Popescu, Sorin On the splitting criterion of Chiantini and Valabrega. 90c:14009
- Ragusa, Alfio see Maggioli, Renato, 90k:14029
- Strano, Rosario A characterization of complete intersection curves in P^3 . 90b:14062
- Tsuboi, Syoji A theorem on the existence of a maximal analytic family of surfaces with ordinary singularities in the projective 3-space. 90g:32025
- Valabrega, Paolo Subcanonical curves, bundles and reflexive sheaves on P^3 . (Italian. English summary) 90j:14070
- Vestri, Nerina A noteworthy property of the rational skew quadric equipped with two stationary points. (Italian. English summary) 90b:14037

14H99 None of the above, but in this section

- Ballico, Edoardo On singular curves in the case of positive characteristic. 90h:14042
- (with Bolondi, Giorgio) Deficiency modules and specializations. 90d:14033
- Bolondi, Giorgio see Ballico, Edoardo, 90d:14033
- Craigheo, P. C. A remark on Abhyankar's space lines. (Italian summary) 90c:14023
- Daigle, D. A property of polynomial curves over a field of positive characteristic. 90k:14030
- Fiedler, Thomas Real points on complex plane curves. 90f:14022
- Green, Mark L. (with Lazarsfeld, R.) Some results on the syzygies of finite sets and algebraic curves. 90d:14034
- Katz, Sheldon H. (with Sederberg, Thomas W.) Genus of the intersection curve of two rational surface patches. 90d:14035
- Koh, Jee-Heub (with Stillman, Michael) Linear syzygies and line bundles on an algebraic curve. 90j:14035
- Korchagin, A. B. (with Shustin, E. I.) Sixth-degree affine curves and smoothings of a nondegenerate sixth-order singular point. 90f:14043
- Lazarsfeld, R. see Green, Mark L., 90d:14034
- Libgober, A. Theta characteristics on singular curves, spin structures and Rohlin theorem. 90c:14036
- Matsumoto, Toshio On some remarks about analytic differentials of higher order of a compact Riemann surface. 90f:14036
- Natanzen, S. M. Finite groups of homeomorphisms of surfaces, and real forms of complex algebraic curves. (Russian) 90b:14038
- Sederberg, Thomas W. see Katz, Sheldon H., 90d:14035
- Shustin, E. I. see Korchagin, A. B., 90f:14043
- Stillman, Michael see Koh, Jee-Heub, 90j:14035
- Witten, Edward Free fermions on an algebraic curve. 90j:14042
- Items with secondary classifications in 14H99
- Anderson, D. C. see Waggenspack, W. N., 90d:14001
- Arbarello, Enrico (with De Concini, C.; Kac, V. G.) The infinite wedge representation and the reciprocity law for algebraic curves. 90j:22034
- Bujalance, E. (with Bujalance, J. A.; Martínez, Ernesto) On the automorphism group of hyperelliptic Klein surfaces. 90a:30130
- (with Etayo Gordejuela, José Javier; Gamboa, J. M.; Martens, Gerriet) Minimal genus of Klein surfaces admitting an automorphism of a given order. 90b:30052
- (with Gromadzki, Grzegorz) On nilpotent groups of automorphisms of Klein surfaces. 90c:20044
- Bujalance, J. A. see Bujalance, E.; et al., 90a:30130
- Charney, R. M. (with Cohen, Frederick R.) A stable splitting for the mapping class group. 90c:55021
- Cohen, Frederick R. see Charney, R. M., 90c:55021
- Cucker, Felipe (with Pardo, L. M.; Raimondo, M.; Recio Muñoz, Tomás J.; Roy, M.-F.) On the computation of the local and global analytic branches of a real algebraic curve. 90j:14020
- Da Silva Menezes, Maria Lucia Infinite genus curves with hyperelliptic ends. 90i:58155
- De Concini, C. see Arbarello, Enrico; et al., 90j:22034
- Donaldson, S. Complex curves and surgery. 90k:57041
- Etayo Gordejuela, José Javier see Bujalance, E.; et al., 90b:30052
- Gamboa, J. M. see Bujalance, E.; et al., 90b:30052
- Giuffrida, Salvatore On the transversality of two surfaces in P^3 . (Italian. English summary) 90d:14007
- Gromadzki, Grzegorz see Bujalance, E., 90c:20044
- Helminck, G. F. Matrix hierarchies and vector bundles over Riemann surfaces. 90c:32042
- Holzapfel, R.-P. On the Nebentypus of Picard modular forms. 90a:11057
- Kac, V. G. see Arbarello, Enrico; et al., 90j:22034
- Makar-Limanov, L. Rings of differential operators on algebraic curves. 90j:16004
- Martens, Gerriet see Bujalance, E.; et al., 90b:30052
- Martínez, Ernesto see Bujalance, E.; et al., 90a:30130
- Mathur, Samir D. (with Sen, Ashoke) Differential equation for genus-two characters in arbitrary rational conformal field theories. 90a:81148

- Pardo, L. M. *see* Cucker, Felipe; et al., 90j:14020
 Raimondo, M. *see* Cucker, Felipe; et al., 90j:14020
 Rains, A. K. The divisor group and multiplicative Ward identities in conformal field theory. 90m:31129
 Racio Muñoz, Tomás J. *see* Cucker, Felipe; et al., 90j:14020
 Roy, M.-F. *see* Cucker, Felipe; et al., 90j:14020
 Sen, Ashoke *see* Mathur, Samir D., 90a:81148
 Shastin, E. I. New M - and $(M-1)$ -curves of degree 8. 90a:14033
 Severov, P. Isotopic but not rigidly isotopic plane systems of straight lines. 90a:14034
 Waggenpack, W. N. (with Anderson, D. C.) Piecewise parametric approximations for algebraic curves. 90d:14091
 Weinberg, David A. The affine classification of cubic curves. 90b:14068
 — The topological classification of cubic curves. 90b:14069

14Jxx Surfaces and higher-dimensional varieties

Items with secondary classifications in 14Jxx

- (Baltico, Eduardo) *see* Problems: Algebraic geometry, 90j:14001
 (Ciliberto, Ciro) *see* Problems: Algebraic geometry, 90j:14001

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Problems:

- Algebraic geometry Open problems. 90j:14001

14J05 Picard group

- Blass, Josef *see* Blass, Piotr; et al., (90a:14002)
 Blass, Piotr (with Blass, Josef; Horadam, K. J.; Kleidman, Peter B.; Ryba, A. J. E.) A new doubly-infinite class of factorial rings. (see 90a:14002)
 Cox, David A. Picard numbers of surfaces in 3-dimensional weighted projective spaces. 90d:14036
 Horadam, K. J. *see* Blass, Piotr; et al., (90a:14002)
 Katsura, Toshiyuki On the discriminants of the intersection form on Néron-Severi groups. 90a:14049
 Kleidman, Peter B. *see* Blass, Piotr; et al., (90a:14002)
 Ryba, A. J. E. *see* Blass, Piotr; et al., (90a:14002)
 Serrano, Fernando Divisors of bielliptic surfaces and embeddings in P^4 . 90m:14029

Items with secondary classifications in 14J05

- Alekseev, V. A. (with Nikulin, V. V.) Classification of del Pezzo surfaces with log-terminal singularities of index ≤ 2 and involutions on $K3$ surfaces. 90b:14048
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 Matsuzawa, Jun-ichi Correction to: "Monoidal transformations of Hirzebruch surfaces and Weyl groups of type C^n " [J. Fac. Sci. Univ. Tokyo Sect. IA Math. 35 (1988), no. 2, 425–429; MR 89f:14038]. 90b:14036
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 — *see also* Alekseev, V. A., 90b:14048
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 Zhang, De-Qi Logarithmic del Pezzo surfaces with rational double and triple singular points. 90b:14047

14J10 Families, moduli, classification: algebraic theory

- Fujita, Takao Polarized manifolds of degree three and Δ -genus two. 90b:14037
 Gómez-Mont Avalos, Carlos On the local Torelli theorem for extreme varieties. (Spanish) 90j:14018
 Green, Mark L. Components of maximal dimension in the Noether-Lefschetz locus. 90b:14038
 Mukai, Shigeru Curves, $K3$ surfaces and Fano 3-folds of genus ≤ 10 . 90b:14039
 Nakayama, Noboru On Weierstrass models. 90m:14030
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 Viehweg, Eckart Weak positivity and the stability of certain Hilbert points. 90b:14037
 Wilson, P. M. H. Calabi-Yau manifolds with large Picard number. 90b:14044

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- Colliot-Thélène, Jean-Louis (with Ojanguren, Manuel) Variétés unirationnelles non rationnelles: au-delà de l'exemple d'Artin et Mumford. [Nonrational unirational varieties: beyond the example of Artin and Mumford] 90m:14012
 Fujimoto, Yoshio Pluricanonical divisors of elliptic fiber spaces. 90a:32037
 Gurjar, R. V. (with Miyanishi, Masayoshi) Affine surfaces with $K \leq 1$. 90b:14044
 Harbourne, Brian Iterated blow-ups and moduli for rational surfaces. 90b:14009
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 — Discrete analysis of surface coverings. II. 90d:14013b
 Itaka, Shigeru On the theory of minimal models of algebraic varieties. (Japanese) 90b:14008
 Iskovskikh, V. A. Double projection from a line onto Fano 3-folds of the first kind. 90j:14048
 Kirwan, Frances Moduli spaces of degree d hypersurfaces in P_n . 90b:14006
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14J15 Moduli, classification: analytic theory [see also 32J15]

- Green, Paul S. (with Hübsch, Tristan) Connecting moduli spaces of Calabi-Yau threefolds. 90a:14050
 Hübsch, Tristan *see* Green, Paul S., 90a:14050
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 Morrison, David R. On the moduli of Todorov surfaces. 90a:14051
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 Catanese, F. Everywhere nonreduced moduli spaces. 90j:14013
 Green, Paul S. (with Hübsch, Tristan) Possible phase transitions among Calabi-Yau compactifications. 90b:53180
 Hübsch, Tristan *see* Green, Paul S., 90b:53180
 Kotschick, Dieter On manifolds homeomorphic to $CP^2 \# 8CP^2$. 90a:57047
 Lee, Ronnie (with Weintraub, Steven H.) The Siegel modular variety of degree two and level four: a report. 90b:11061
 Martinec, Emil J. Algebraic geometry and effective Lagrangians. 90b:81129
 Neeman, Amnon Ueda theory: theorems and problems. 90d:32030
 O'Grady, Kieran G. On the Kodaira dimension of moduli spaces of abelian surfaces. 90m:14038
 Okonek, Christian Fake Enriques surfaces. 90b:57062
 — (with Van de Ven, A.) Γ -type-invariants associated to $PU(2)$ -bundles and the differentiable structure of Barlow's surface. 90a:57048
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14J17 Singularities of surfaces

- Alekseev, V. A. (with Kolpakov-Miroshnichenko, I. Ya.) Factor surfaces of P^2 with respect to a finite group. 90b:14039
 Behnke, Kurt On Auslander modules of normal surface singularities. 90b:14031
 Choi, Sangki The divisor class group of surfaces of embedding dimension 3. 90a:14052
 Gau, Yih-Nan On the topological types of quasi-ordinary surface germs. 90b:14040
 Hidaka, Fumio (with Tomari, Masataka) On singularities arising from the contraction of the minimal section of a ruled surface. 90b:14019
 Kahn, Constantia P. M. ★ Reflexive Moduln auf einfach-elliptischen Flächensingularitäten. (German) [Reflexive modules over simply elliptic surface singularities] 90b:14045
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- Alekseev, V. A. (with Nikulin, V. V.) Classification of del Pezzo surfaces with log-terminal singularities of index ≤ 2 and involutions on $K3$ surfaces. 90b:14048
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 — On unique and almost unique factorization of complete ideals. II. 90j:14016b
 Ford, Timothy J. (with Saltman, David) Division algebras over Henselian surfaces. 90b:13001
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 Goto, Shiro Surface singularities of finite Buchsbaum-representation type. 90b:13021
 Goze, Michel (with Lutz, Robert) Représentation paramétrique locale des courbes planes. [Local parametric representation of plane curves] 90m:14003
 Greuel, Gert-Martin (with Kröning, H.) Simple singularities in positive characteristic. 90b:14001
 Gurjar, R. V. Graded subrings of $C[X, Y]$. 90m:14040
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 — *see also* Alekseev, V. A., 90b:14048
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 Vaquié, M. Modification de Nash et invariants numériques d'une surface normale. [Nash modification and numerical invariants of a normal surface] 90j:32013
 Watanabe, Keiichi Study of F -purity in dimension two. 90b:14005
 Yang, Jin Gen Characterizations of normal quintic $K3$ -surfaces. 90j:14045
 Zhang, De-Qi Logarithmic del Pezzo surfaces with rational double and triple singular points. 90b:14047

14J20 Arithmetic ground fields [see also 11Dxx, 14Gxx]

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- Colliot-Thélène, Jean-Louis Arithmétique sur certaines hypersurfaces cubiques. [Arithmetic on certain cubic hypersurfaces] 90d:11076
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 Parshin, A. N. Application of ramified coverings in the theory of Diophantine equations. 90j:11055
 Shioda, Goro Frey's elliptic curve as an elliptic surface over the Fermat curve. 90b:14024
 Tankeev, S. G. Surfaces of type $K3$ over number fields, and ℓ -adic representations. 90d:14041

14J25 Special surfaces, general

- Ambrogio, Elisabetta (with Romagnoli, Daniela) On the class of an algebraic surface as a variable of its Kodaira dimension. (Italian. English summary) 90h:14046
- Andreotta, Marco (with Ballico, Edoardo) On the adjunction process over a surface in char. p . 90b:14041
- Aure, Alf Bjørn The smooth surfaces in P^4 without apparent triple points. 90e:14041
- Ballico, Edoardo A characterization of the Veronese surface. 90g:14020
- see also Andreotta, Marco, 90b:14041
- Brivio, Sonia (with Lanteri, Antonio) On complex projective surfaces with trigonal hyperplane sections. 90k:14032a
- (with Lanteri, Antonio) Erratum to: "On complex projective surfaces with trigonal hyperplane sections" [Manuscripta Math. 65 (1989), no. 1, 83–92]. 90k:14032b
- Gurjar, R. V. A tribute to a work of C. P. Ramanujam. 90d:14038
- Halasny, Elena Normal surfaces of degree 6 in P^4 . 90k:14033
- Katsura, Toshiyuki (with Takeda, Yoshifumi) Quotients of abelian and hyperelliptic surfaces by rational vector fields. 90i:14040
- Lanteri, Antonio Variations on the classical theme of hyperelliptic sections. (Italian. English summary) 90k:14034
- On polarized surfaces of Δ -genus two. (Italian summary) 90a:14053
- see also Brivio, Sonia, 90k:14032a and 90k:14032b
- Palleschi, Marino On the adjoint line bundle to an ample and spanned one. 90m:14031 (Ramanujam, C. P.) see Gurjar, R. V., 90d:14038
- Romagnoli, Daniela see Ambrogio, Elisabetta, 90h:14046
- Saito, Kyoji Algebraic surfaces for regular systems of weights. 90a:14054
- Spurr, Michael J. Nef cotangent bundles over line arrangements. 90b:14042
- Stois, Manuela On surfaces with nodes of low degree in P^3 . 90i:14041
- Takeda, Yoshifumi see Katsura, Toshiyuki, 90i:14040
- Verra, Alessandro Smooth surfaces of degree 9 in $G(1, 3)$. 90a:14055
- Xu, Ming Wei Inflection points on surfaces in P^3 . (Chinese) 90m:14032
- Zhang, De-Qi Logarithmic del Pezzo surfaces with rational double and triple singular points. 90h:14047
- Zuo, Kang ★ Kummer-Überlagerungen algebraischer Flächen. (German) [Kummer coverings of algebraic surfaces] 90i:14042

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- Arrondo, Enrique (with Sols Lucia, Ignacio) Classification of smooth congruences of low degree. 90b:14019
- Ballico, Edoardo (with Ellia, Ph.) On projections of ruled and Veronese surfaces. 90f:14016
- Belokolon, E. D. (with Enolskii, V. Z.) Algebraically integrable nonlinear equations and Humbert surfaces. 90e:14046
- Biancofiore, Aldo (with Livorni, Elvira Laura) On the iteration of the adjunction process for surfaces of negative Kodaira dimension. 90c:14004
- Bolondi, Giorgio (with Migliore, J. C.) Configurations of linear projective subvarieties. 90i:14053
- Borcs, Ciprian Nodal quintic threefolds and nodal octic surfaces. 90k:14038
- Cox, David A. Picard numbers of surfaces in 3-dimensional weighted projective spaces. 90d:14036
- Crauder, Bruce (with Katz, Sheldon H.) Cremona transformations with smooth irreducible fundamental locus. 90b:14012
- Ellia, Ph. see Ballico, Edoardo, 90f:14016
- Enolskii, V. Z. see Belokolon, E. D., 90e:14046
- Friedman, Robert David (with Morgan, John W.) Complex versus differentiable classification of algebraic surfaces. 90f:57039
- Hulek, K. (with Weintraub, Steven H.) Bielliptic abelian surfaces. 90b:14052
- Katz, Sheldon H. see Crauder, Bruce, 90b:14012
- Kuga, Michio On a conjectural equation of certain kinds of surfaces. 90e:11088
- Livorni, Elvira Laura see Biancofiore, Aldo, 90c:14004
- Manolache, Nicolae The equations of the abelian surfaces embedded in $P^4(C)$. 90b:14023
- Migliore, J. C. see Bolondi, Giorgio, 90i:14053
- Morgan, John W. see Friedman, Robert David, 90f:57039
- Oda, Takayuki Hodge numbers of a Kummer covering of P^2 ramified along a line configuration. 90f:14006
- Oka, Mutsuo On the deformation of certain type of algebraic varieties. 90e:14051
- Sols Lucia, Ignacio see Arrondo, Enrique, 90b:14019
- Tyurin, A. N. Symplectic structures on the moduli spaces of vector bundles on algebraic surfaces with $p_g > 0$. 90a:14020
- Weintraub, Steven H. see Hulek, K., 90b:14052
- Xu, Ming Wei The hyperosculating points of surfaces in P^3 . 90i:14060

14J26 Rational and ruled surfaces

- Alekseev, V. A. (with Nikulin, V. V.) Classification of del Pezzo surfaces with log-terminal singularities of index ≤ 2 and involutions on $K3$ surfaces. 90h:14048
- Alexander, James Ernest Surfaces rationnelles non-spéciales dans P^4 . [Nonspecial rational surfaces in P^4] 90b:14043
- Craigheo, P. C. (with Gastazzo, R.) Factorial singularities on rational quartic surfaces of P^3 . (Italian summary) 90d:14039
- tom Dieck, Tammo Symmetric homology planes. 90m:14033
- Gastazzo, R. see Craigheo, P. C., 90d:14039
- Gurjar, R. V. (with Miyanishi, Masayoshi) Affine surfaces with $\bar{\pi} \leq 1$. 90b:14044
- Hirschowitz, André Une conjecture pour la cohomologie des diviseurs sur les surfaces rationnelles génériques. [A conjecture for the cohomology of divisors on generic rational surfaces] 90g:14021
- Kunyavskii, B. É. (with Skorobogatov, A. N.; Tsfasman, M. A.) del Pezzo surfaces of degree four. (French summary) 90i:14035
- Matsuzawa, Jun-ichi Correction to: "Monoidal transformations of Hirzebruch surfaces and Weyl groups of type C^n " [J. Fac. Sci. Univ. Tokyo Sect. IA Math. 35 (1988), no. 2, 425–429; MR 89f:14038]. 90k:14036
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- Nikalia, V. V. del Pezzo surfaces with log-terminal singularities. II. 90h:14049
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- Pedreira, Manuel On regular ruled surfaces in P^3 . 90k:14037
- Rathmann, Jürgen Double structures on Bordiga surfaces. 90i:14043
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- Ballico, Edoardo (with Ellia, Ph.) On projections of ruled and Veronese surfaces. 90f:14016
- Besana, G. (with Olivotto, P.) Numerical very-ampleness criteria for divisors on some algebraic surfaces. (Italian) 90i:14044
- Biancofiore, Aldo On the hyperplane sections of blow-ups of complex projective plane. 90m:14007
- (with Livorni, Elvira Laura) On the iteration of the adjunction process for surfaces of negative Kodaira dimension. 90c:14004
- Ellia, Ph. see Ballico, Edoardo, 90f:14016
- Halasny, Elena Normal surfaces of degree 6 in P^4 . 90k:14033
- Harbourne, Brian Iterated blow-ups and moduli for rational surfaces. 90b:14009
- Itaka, Shigeru Classification of reducible plane curves. 90a:14047
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- Maruyama, Masaki On a compactification of a moduli space of stable vector bundles on a rational surface. 90a:14011
- Olivotto, P. see Besana, G., 90i:14044
- Ran, Z. Families of plane curves and their limits: Enriques' conjecture and beyond. 90e:14024
- Roberts, Joel ★ Projective embeddings of algebraic varieties. 90b:14017

14J27 Elliptic surfaces

- Besana, G. (with Olivotto, P.) Numerical very-ampleness criteria for divisors on some algebraic surfaces. (Italian) 90i:14044
- Gurjar, R. V. (with Shastri, A. R.) On the rationality of complex homology 2-cells. II. 90b:14045
- Harbourne, Brian (with Miranda, Rick) Exceptional curves on rational numerically elliptic surfaces. 90m:14034
- Hoyt, William L. On twisted Legendre equations and Kummer surfaces. 90h:14050
- Ishida, Masa-Nori An elliptic surface covered by Mumford's fake projective plane. 90a:14056
- Miranda, Rick (with Persson, Ulf) Configurations of I_2 fibers on elliptic $K3$ surfaces. 90i:14051
- see also Harbourne, Brian, 90m:14034
- Olivotto, P. see Besana, G., 90i:14044
- Persson, Ulf see Miranda, Rick, 90i:14051
- Shastri, A. R. see Gurjar, R. V., 90b:14045

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- Friedman, Robert David Rank two vector bundles over regular elliptic surfaces. 90e:14016
- Gurjar, R. V. Coverings of algebraic varieties. 90e:14012
- Naruki, Isao $K3$ surfaces related to root systems in E_8 . 90d:14040
- Ogusio, Keiji On Jacobian fibrations on the Kummer surfaces of the product of nonisogenous elliptic curves. 90j:14044
- Saito, Kyoji Algebraic surfaces for regular systems of weights. 90a:14054
- Serrano, Fernando Divisors of bielliptic surfaces and embeddings in P^4 . 90m:14029
- Shioda, Tetsuji Frey's elliptic curve as an elliptic surface over the Fermat curve. 90i:14024

14J28 $K3$ -surfaces and Enriques surfaces

- Cossec, François R. (with Dolgachev, Igor) ★ Enriques surfaces. I. 90h:14052
- Dolgachev, Igor see Cossec, François R., 90h:14052
- Kogan, Ya. I. (with Markushevich, D. G.; Morozov, A. Yu.; Ofshanskii, M. A.; Perelomov, A. M.; Roslyt, A. A.) Some examples of instantons in sigma models. $K3$ manifolds. 90j:14043
- Lang, William E. On Enriques surfaces in characteristic p . II. 90a:14057
- Markushevich, D. G. see Kogan, Ya. I.; et al., 90j:14043
- Morozov, A. Yu. see Kogan, Ya. I.; et al., 90j:14043
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- Ogusio, Keiji On Jacobian fibrations on the Kummer surfaces of the product of nonisogenous elliptic curves. 90j:14044
- Ofshanskii, M. A. see Kogan, Ya. I.; et al., 90j:14043
- Perelomov, A. M. see Kogan, Ya. I.; et al., 90j:14043
- Roslyt, A. A. see Kogan, Ya. I.; et al., 90j:14043
- Tankeev, S. G. Surfaces of type $K3$ over number fields, and l -adic representations. 90d:14041
- Yang, Jin Gen Characterizations of normal quintic $K3$ surfaces. 90j:14045

Items with secondary classifications in 14J28

- Blok, B. Yu. A nonrenormalization theorem for a superpotential on $K3$ surfaces. 90a:18084
- Donagi, Ron (with Morrison, David R.) Linear systems on $K3$ -sections. 90a:14046
- Hoyt, William L. On twisted Legendre equations and Kummer surfaces. 90h:14050
- Katsura, Toshiyuki On the discriminants of the intersection form on Néron-Severi groups. 90i:14049
- Kuleshov, S. A. A theorem on the existence of exceptional bundles on surfaces of type $K3$. 90d:14018
- Martens, Gerriet On curves on $K3$ surfaces. 90m:14026
- Miranda, Rick (with Persson, Ulf) Configurations of I_2 fibers on elliptic $K3$ surfaces. 90i:14051
- Morrison, David R. On the moduli of Todorov surfaces. 90a:14051
- see also Donagi, Ron, 90a:14046
- Mukai, Shigeru Curves, $K3$ surfaces and Fano 3-folds of genus ≤ 10 . 90b:14039

- Finite groups of automorphisms of $K3$ surfaces and the Mathieu group. 90b:32053
 Okonek, Christian Fake Enriques surfaces. 90c:57062
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 Saito, Kyoji Algebraic surfaces for regular systems of weights. 90a:14054
 Shepherd-Barrow, N. I. Apolarity and its applications. 90b:14029
 Urabe, Tetsuke Dynkin graphs and combinations of singularities on plane sextic curves. 90c:14035

14J29 Surfaces of general type

- Tokunaga, Hiro-o On algebraic surfaces and threefolds whose cotangent bundles are generated by global sections. 90b:14046
 Uslu, Saipol Examples of semi-stable degenerations of pairs of Kurev surfaces and their canonical curves. 90b:14047

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- Ando, Tetsuya Pluricanonical systems of algebraic varieties of general type of dimension ≤ 5 . 90c:14024
 Ishida, Masa-Nori An elliptic surface covered by Mumford's fake projective plane. 90c:14056
 Moishezon, B. (with Teicher, M.) Braid group technique in complex geometry. I. Line arrangements in CP^2 . 90b:32014
 Morrison, David R. On the moduli of Todorov surfaces. 90a:14051
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14J30 Special 3-folds [see also 14E05]

- Alzati, Alberto Fano 3-folds in $G(1, 4)$. (Italian. English summary) 90b:14053
 Ambrogio, Elisabetta (with Romagnoli, Daniela) On the nonrationality of the Fano variety of P^3 , which contains three planes two by two meeting in one point. 90d:14042
 Burcea, Ciprian Nodal quintic threefolds and nodal octic surfaces. 90b:14038
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 — The infinitesimal Abel-Jacobi mapping and moving the $\mathcal{O}(2) + \mathcal{O}(-4)$ curve. 90b:14047
 Cutkosky, Steven Dale On Fano 3-folds. 90d:14043
 Ferraresse, Giorgio (with Romagnoli, Daniela) Elliptic curves on the general hypersurface of degree 7 of P^4 . 90c:14058
 Finat, J. Introduction to the algebraic geometry of complex projective threefolds with ordinary singularities. (Spanish. English summary) 90b:14048
 Fletcher, A. R. Inverting Reid's exact plurigenera formula. 90f:14023
 Furushima, Mikio (with Nakayama, Noboru) The family of lines on the Fano threefold V_5 . 90b:14039
 Ganoulis, N. (with Lazarides, G.; Shaf, Q.) Classification of three generation superstring models according to their discrete symmetries. 90b:14054
 van Geemen, Bert (with Werner, Jürgen) Nodal quintics in P^4 . 90b:14035
 — *see also* Werner, Jürgen. 90b:14036
 Green, Paul S. (with Hübsch, Tristan) $(1, 1)^3$ couplings in Calabi-Yau threefolds. 90b:14022
 Hanamura, Masaki Stability of the pluricanonical maps of threefolds. 90b:14043
 Hübsch, Tristan *see* Green, Paul S. 90b:14022
 Iskovskikh, V. A. Double projection from a line onto Fano 3-folds of the first kind. 90b:14048
 Kalara, Sunil (with Lykken, Joseph) New Calabi-Yau manifolds from weighted hypersurfaces and nonminimal $N = 2$ superconformal models. 90b:14040
 Katsuki, Yasuhiko (with Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu; Ono, Yasuji; Tanioka, Kazutaka) Z_3 and Z_{12} orbifold models. 90b:14055
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 Kim, Jae Kwan (with Park, Chung Joo; Yoon, Yongsung) Calabi-Yau manifolds from $N = 2$ Landau-Ginzburg superconformal theories. 90b:14049
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 Shin, Ki-Ho 3-dimensional Fano varieties with canonical singularities. 90b:14050
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 Werner, Jürgen (with van Geemen, Bert) New examples of threefolds with $c_1 = 0$. 90b:14036
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- Alzati, Alberto (with Bertolini, Marina) On the problem of rationality for some cubic complexes. 90b:14053
 Ando, Tetsuya Pluricanonical systems of algebraic varieties of general type of dimension ≤ 5 . 90c:14024

- Bardelli, Fabio A footnote to a paper by A. Grothendieck (the Grothendieck generalized Hodge conjecture for some geometric families of abelian threefolds): "Hodge's general conjecture is false for trivial reasons" [Topology 8 (1969), 299–303; MR 40 #5624]. (Italian summary) 90b:14049
 Beltrametti, M. (with Biancofiore, Aldo; Sommese, A. J.) Projective n -folds of log-general type. I. 90b:14056
 Bertolini, Marina *see* Alzati, Alberto. 90b:14053
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 Candelas, P. (with Lütken, C. A.; Schimmrigk, R.) Complete intersection Calabi-Yau manifolds. II. Three generation manifolds [Nuclear Phys. B 306 (1988), no. 1, 113–136; MR 89g:53102]. (see 90g:83004)
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- Fania, Maria Lucia (with Sommesse, A. J.) On the projective classification of smooth n -folds with n even. 90f:14051
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- Mukai, Shigeru Biregular classification of Fano 3-folds and Fano manifolds of coindex 3. 90g:14024
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- Grayson, Daniel R. The arithmetogeometric mean. 90g:11071
- Hindry, M. Minoration de hauteurs et analyse diophantienne sur les courbes elliptiques. [Bounding heights from below and Diophantine analysis on elliptic curves] (see 90j:11004)
- Hulek, K. Elliptische Kurven, abelsche Flächen und das Ikosaeder. (Elliptic curves, abelian surfaces and the icosahedron) 90h:14023
- Kaji, Hajime On the vector bundles whose endomorphisms yield Azumaya algebras of cyclic type. 90d:14022
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- Torsion points on elliptic curves over fields of low degree. 90f:11052
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- Laurent, Michel Une nouvelle démonstration du théorème d'isogénie, d'après D. V. et G. V. Chudnovsky. [A new proof of the isogeny theorem, following D. V. and G. V. Chudnovsky] 90k:11094
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- Grant, David Coates-Wiles towers in dimension two. 90f:11038
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- Petrov, G. S. The problem of the number of zeros of an elliptic integral is a semi-algebraic problem. (Russian) 90j:14053
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- André, Yves Erratum to the article: "Complex multiplication in pencils of abelian varieties" [in *Séminaire de Théorie des Nombres, Paris 1984-85*, 1-22, Birkhäuser Boston, Boston, MA, 1986; MR 88j:14055]. (French) 90h:14061
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- Anderson, Greg W. On a question arising from complex multiplication theory. 90c:11087
- Dorman, David R. Global orders in definite quaternion algebras as endomorphism rings for reduced CM elliptic curves. 90j:11043
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- Mal, Liem Lower bounds for the ranks of CM types. 90g:11148
- Ogiso, Keiji On Jacobian fibrations on the Kummer surfaces of the product of nonisogenous elliptic curves. 90j:14044
- Philippon, P. (with Waldschmidt, M.) Formes linéaires de logarithmes simultanées sur les groupes algébriques commutatifs. [Simultaneous linear forms of logarithms on

14K20 Analytic theory; abelian integrals and differentials

- Belokobos, E. D. (with Énofskii, V. Z.) Verdier's elliptic solitons and the Weierstrass reduction theory. 90h:14059
- Bonora, L. (with Matone, Marco; Rinaldi, M.) Bases of meromorphic differentials on genus g Riemann surfaces and applications. 90h:14045
- Énofskii, V. Z. see Belokobos, E. D., 90h:14059
- Gherardelli, Francesco On a class of abelian varieties. (Italian. English summary) 90e:14045
- Kanev, V. I. (with Katsarkov, L. V.) Universal properties of Prym varieties of singular curves. 90d:14045
- Katsarkov, L. V. see Kanev, V. I., 90d:14045
- MacRae, R. E. An addition formula for the e -functions. 90h:14060
- Matone, Marco see Bonora, L.; et al., 90h:14045
- Meeks, William H., III Regularity of the Albanese map for nonorientable surfaces. 90f:14028
- Petrov, G. S. The problem of the number of zeros of an elliptic integral is a semi-algebraic problem. (Russian) 90j:14053
- Raina, A. K. Fay's trisecant identity and conformal field theory. 90c:14028
- Rinaldi, M. see Bonora, L.; et al., 90h:14045

14K22 Complex multiplication [see also 11G15]

- André, Yves Erratum to the article: "Complex multiplication in pencils of abelian varieties" [in *Séminaire de Théorie des Nombres, Paris 1984-85*, 1-22, Birkhäuser Boston, Boston, MA, 1986; MR 88j:14055]. (French) 90h:14061
- Bertin, José Sur une formule de Shioda et Mitani. (English summary) [On a formula of Shioda and Mitani] 90k:14046
- Anderson, Greg W. On a question arising from complex multiplication theory. 90c:11087
- Dorman, David R. Global orders in definite quaternion algebras as endomorphism rings for reduced CM elliptic curves. 90j:11043
- Flach, Matthias Periods and special values of the hypergeometric series. 90h:11065
- Gherardelli, Francesco Quasi-abelian varieties with complex multiplication. (Italian. English summary) 90k:32097
- Hazama, Fumio Demjanenko matrix, class number, and Hodge group. 90m:11090
- Mal, Liem Lower bounds for the ranks of CM types. 90g:11148
- Ogiso, Keiji On Jacobian fibrations on the Kummer surfaces of the product of nonisogenous elliptic curves. 90j:14044
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- commutative algebraic groups] 90e:11113
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 Wingberg, Kay A Riemann-Hurwitz formula for the Selmer group of an elliptic curve with complex multiplication. 90b:11061

14K25 Theta functions

- Barsotti, Iacopo A new look for thetas. 90j:14054
 Beauville, Arnaud (with Debarre, Olivier; Donagi, Ron; van der Geer, Gerard) Sur les fonctions θ d'ordre deux et les singularités du diviseur θ . (English summary) [On second-order theta functions and the singularities of the theta divisor] 90b:14053
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- Arbarello, Enrico Riemann surfaces, theta functions and representations. (Italian) 90e:14025
 Askey, Richard Orthogonal polynomials and theta functions. 90b:33006
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 Gilbert, Gerald The Kadomtsev-Petviashvili equations and fundamental string theory. 90i:58070
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 Kaul, Ramesh K. see Behara, N.; et al., 90g:81209
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14K30 Picard schemes, higher Jacobians

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- Cartier, Pierre Jacobienes généralisées, monodromie unipotente et intégrales itérées. [Generalized Jacobians, unipotent monodromy and iterated integrals] 90d:32024
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14K99 None of the above, but in this section

- Items with secondary classifications in 14K99
 Nori, Madhav V. Cycles on the generic abelian threefold. 90k:14003

14Lxx Group schemes (For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45.)

14L05 Formal groups, p -divisible groups [see also 17B50]

- Abrashkin, V. A. Modular crystal representations. 90b:14056
 Ditters, E. J. (with Hoving, Simen J.) On the connected part of the covariant Tate p -divisible group and the ζ -function of the family of hyperelliptic curves $y^2 = 1 + \mu x^N$ modulo various primes. 90c:14047

- On the classification of commutative formal group laws over p -Hilbert domains and a finiteness theorem for higher Hasse-Witt matrices. **90h:14062**
- Hoving, Simen J. *see* Ditters, E. J., **90e:14047**
- Kesting, Kevin *Lifting endomorphisms of formal A -modules.* **90e:14048**
- Klapper, A. *Selmer group estimates arising from the existence of canonical subgroups.* **90i:14046**
- Ota, Kaori *On P -integrality of a formal group obtained from a hypergeometric function.* **90f:14030**
- Rosen, Michael I. (with Zimmermann, Karl Frederic) *Torsion points of generic formal groups.* **90d:14047**
- Tyc, Andrzej *On F -integrable derivations of the ring of formal power series in characteristic $p > 0$.* **90k:14050**
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- Wintenberger, Jean-Pierre *Motifs et ramification pour les points d'ordre fini des variétés abéliennes. [Motives and ramification for the points of finite order of abelian varieties]* **90h:14063**
- Yamagata, Shuji *Endomorphism rings of formal A_0 -modules.* **90k:14051**
- Zimmermann, Karl Frederic *Points of order p of generic formal groups. (French summary)* **90k:14065**
- *Torsion points of generic formal groups defined over $\mathbb{Z}_p[[t_1, \dots, t_{n-1}]]$.* **90m:14039**
- *see also Rosen, Michael I., 90d:14047*

Items with secondary classifications in 14L05

- Davis, Donald M. *Divisibility of generalized exponential and logarithmic coefficients.* **90i:55010**
- Kesting, Kevin *Galois characters associated to formal A -modules.* **90b:11128**
- Rosen, Michael I. (with Zimmermann, Karl Frederic) *Galois representations associated to generic formal groups.* **90m:11191**
- Teitelbaum, Jeremy *On Drinfeld's universal formal group over the p -adic upper half plane.* **90j:11050**
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14L10 Group varieties

Items with secondary classifications in 14L10

- Wüthrich, G. *Multiplicity estimates on group varieties.* **90g:11100**
- *Algebraische Punkte auf analytischen Untergruppen algebraischer Gruppen. [Algebraic points on analytic subgroups of algebraic groups]* **90g:11101**

14L15 Group schemes

- Gaudier, Henri *Algèbres de groupe du groupe additif. (English summary) [Group algebras of the additive group]* **90j:14056**
- Ishibashi, Yasumori *Note on linear μ_p -actions on affine spaces.* **90d:14048**
- Laue, Herbert *A remark on the degrees of commutative algebraic groups.* **90d:14049**
- Reimann, Harry *Cartiermoduln lokaler Gruppenschemata der Ordnung p über einem perfekten Ring der Charakteristik p . [Cartier modules of local group schemes of order p over a perfect ring of characteristic p] **90f:14031***
- Reversat, Marc *Construction analytique (rigide) de variétés abéliennes. [Rigid analytic construction of abelian varieties]* **90j:14028**

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- Abe, Eiichi (with Hurley, James F.) *Centers of Chevalley groups over commutative rings.* **90e:20040**
- Brennan, J. P. *Invariants of affine group schemes.* **90e:14050**
- Friedlander, Eric M. (with Mislin, Guido) *Conjugacy classes of finite solvable subgroups in Lie groups.* **90e:22017**
- Hurley, James F. *see Abe, Eiichi, 90e:20040*
- Mislin, Guido *see Friedlander, Eric M., 90e:22017*

14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

- Vistoli, Angelo *Characteristic classes of principal bundles in algebraic intersection theory.* **90k:14052**

Items with secondary classifications in 14L17

- Abe, Eiichi (with Hurley, James F.) *Centers of Chevalley groups over commutative rings.* **90e:20040**
- Hurley, James F. *see Abe, Eiichi, 90e:20040*

14L20 Finite group schemes

- Abrashkin, V. A. *Finite group schemes of period p over a discrete valuation ring.* **90j:14057**

Items with secondary classifications in 14L20

- Klapper, A. *Selmer group estimates arising from the existence of canonical subgroups.* **90i:14046**
- Pareigis, Bodo *Twisted group rings.* **90k:16009**

14L25 Pro-algebraic group schemes

- Wang, Jian Pan *Inverse limits of affine group schemes.* **90g:14029**

14L30 Group actions on varieties or schemes [see also 14D25]

- Andruskiewitsch, Nicolás *On the complicatedness of the pair (g, K) .* **90h:14064**
- Artamonov, I. V. *Action of biregular automorphisms of the affine plane on pairs of matrices.* **90e:14049**

- Bass, Hyman *Linearizing flat families of reductive group representations. (see 90j:14003)*
- Białynicki-Birula, A. (with Świąćicka, J.) *On complete orbit spaces of $SL(2)$ actions.* **90a:14066**
- (with Świąćicka, J.) *On exotic orbit spaces of tori acting on projective varieties.* **90i:14047**
- Bongartz, Klaus *Schichten von Matrizen sind rationale Varietäten. [Sheets of matrices are rational varieties]* **90g:14030**
- Brennan, J. P. *Invariants of affine group schemes.* **90e:14050**
- Brion, Michel *Groupe de Picard et nombres caractéristiques des variétés sphériques. [Picard group and characteristic numbers of spherical varieties]* **90i:14048**
- tom Dieck, Tammo (with Petrie, Ted) *The Abhyankar-Moh problem in dimension 3.* **90i:14049**
- Eisenbud, David (with Saltman, David) *Rank varieties of matrices.* **90h:14065**
- Gurjar, R. V. *Graded subrings of $C[X, Y]$.* **90m:14040**
- Jurkiewicz, Jerzy Maciej *On some reductive group actions on affine space.* **90j:14058**
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- *On the linearization of actions of linearly reductive groups.* **90d:14050**
- Knap, Friedrich *Der kanonische Modul eines Invariantenrings. (English summary) [The canonical module of a ring of invariants]* **90k:14053**
- Konarski, Jerzy *Some examples of cohomological projective spaces, via C^* -actions.* **90j:14060**
- Koras, Mariusz (with Russell, P.) *On linearizing "good" C^* -actions on C^2 .* **90i:14050**
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- Kraft, Hanspeter *G -vector bundles and the linearization problem.* **90j:14062**
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- Pope, V. L. *Automorphism groups of polynomial varieties. (Russian)* **90m:14041**
- Randall, John D. *see Kraft, Hanspeter; et al., 90b:14057*
- Renner, Lex E. *Reductive embeddings.* **90m:14042**
- Richardson, R. W. *Normality of G -stable subvarieties of a semisimple Lie algebra.* **90d:14052**
- *Irreducible components of the nullcone.* **90g:14031**
- Rosenberg, G. C. M. *Invariant ideals of polynomial algebras with multiplicity free group action.* **90i:14052**
- Russell, P. *see Koras, Mariusz, 90i:14050 and 90j:14061*
- Saltman, David *see Eisenbud, David, 90h:14065*
- Schwarz, Gerald W. *The topology of algebraic quotients.* **90m:14043**
- Shepherd-Barrow, N. I. *Invariant theory for S_3 and the rationality of M_6 .* **90b:14058**
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- Van den Bergh, Michel *Trace rings of generic matrices are Cohen-Macaulay.* **90j:14065**
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- (with Carrell, J.) *A generalization of the Kostant-Macdonald identity.* **90h:32060**
- Akyildiz, Yilmaz *see Akyildiz, Ersan, 90a:14072*
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- (Białynicki-Birula, A.) *see Group actions and invariant theory, 90e:14002*
- Bogomolov, F. A. *Brauer groups of the fields of invariants of algebraic groups.* **90k:14008**
- Carrell, J. *see Akyildiz, Ersan, 90h:32060 and Group actions and invariant theory, 90e:14002*
- Chen, Zhi Jie *A classification of irreducible prehomogeneous vector spaces over an algebraically closed field of characteristic p . II. (Chinese)* **90g:20063**
- Drechsler, Konrad (with Sterz, Ulrich) *Completion of the variety of conics with respect to contact conditions. I.* **90j:14073**
- Endo, Shizuo *On rings of invariants of finite linear groups.* **90f:13006**
- Fauntleroy, A. *Invariant theory for linear algebraic groups. II. (char k arbitrary).* **90a:14013**
- *G.I.T. for general algebraic groups.* **90j:14014**
- *Quasi-projective orbit spaces for linear algebraic group actions.* **90e:14010**
- Fogarty, John *Invariant differentials.* **90a:14014**
- Ginzburg, V. A. *Geometrical aspects of representation theory.* **90e:22028**
- Gurjar, R. V. *A tribute to a work of C. P. Ramanujam.* **90d:14038**
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- Le Bruyn, Lieven (with Procesi, Claudio) *Semisimple representations of quivers.* **90e:16048**
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- Müller, Gerd *Deformations of reductive group actions.* **90c:32043**
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- (Petrie, Ted) *see Topological methods in algebraic transformation groups, 90j:14003*

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- Group Actions and Invariant Theory ★ Group actions and invariant theory. 90e:14002
 Topological Methods in Algebraic Transformation Groups ★ Topological methods in algebraic transformation groups. 90j:14003
 Group actions and invariant theory ★ Group actions and invariant theory. 90e:14002
 Montreal, PQ ★ Group actions and invariant theory. 90e:14002
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14L32 Toric varieties, Newton polyhedra

- Fine, Jonathan On varieties isomorphic in codimension one to torus embeddings. 90k:14066
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 — (with Zelevinskii, A. V.; Kapranov, M. M.) A -discriminants and Cayley-Koszul complexes. 90k:14054
 — (with Zelevinskii, A. V.; Kapranov, M. M.) Newton polyhedra of principal A -determinants. 90k:14055
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 Kleinschmidt, Peter *see* Gretenkort, Jörg; et al., 90j:14066
 Klyachko, A. A. Toric bundles and problems in linear algebra. 90g:14032
 Oka, Mutsuo On the deformation of certain type of algebraic varieties. 90e:14051
 Sturmels, Bernd *see* Gretenkort, Jörg; et al., 90j:14066
 Zelevinskii, A. V. *see* Gelfand, I. M.; et al., 90k:14054; 90k:14055 and 90m:14045

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- Denef, J. (with Sargos, Patrick) Polyèdre de Newton et distribution f_2^* . I. [The Newton polyhedron and the distribution f_2^* . I] 90k:32028
 Gelfand, I. M. (with Zelevinskii, A. V.; Kapranov, M. M.) Hypergeometric functions and toric varieties. 90m:22025
 Harris, Michael Functorial properties of toroidal compactifications of locally symmetric varieties. 90h:11048
 Kapranov, M. M. *see* Gelfand, I. M.; et al., 90m:22025
 Kazarnovskii, B. Ya. Newton polyhedra and Bezout's formula for matrix functions of finite-dimensional representations. (Russian) 90e:22023
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14L35 Classical groups (geometric aspects)

- Kempf, George R. Equations of isotropy. 90j:14067
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 Kempf, George R. A remark on integral representations of $GL_2(n)$. 90d:20031
 Kraft, Hanspeter (with Procesi, Claudio) A special decomposition of the nilpotent cone of a classical Lie algebra. 90m:17025
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14L99 None of the above, but in this section

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- Cassidy, Phyllis Joan The classification of the semisimple differential algebraic groups and the linear semisimple differential algebraic Lie algebras. 90g:12007

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14M05 Varieties defined by ring conditions (factorial, Macaulay)

- Geramita, A. V. (with Migliore, J. C.) On the ideal of an arithmetically Buchsbaum curve. 90d:14053
 Lê Tuấn Hoa Algorithmical aspects of the problem of classifying multi-projections of Veronesean varieties. 90d:14054
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 Ngô Việt Trung (with Valla, Giuseppe) On degree bounds for the defining equations of arithmetically Cohen-Macaulay and Buchsbaum varieties. 90a:14068
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 — (with Vogel, Wolfgang) Castelnuovo bounds for locally Cohen-Macaulay schemes. 90b:14059b
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- Amasaki, Mutsumi Integral arithmetically Buchsbaum curves in P^3 . 90e:14016
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 — (with Migliore, J. C.) Buchsbaum liaison classes. 90g:14017
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- Bolondi, Giorgio (with Migliore, J. C.) Configurations of linear projective subvarieties. 90k:14053
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- Alexander, James Ernest Surfaces rationnelles non-spéciales dans P^4 . [Nonspecial rational surfaces in P^4] 90b:14043
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- Alzati, Alberto (with Bertolini, Marina) On the problem of rationality for some cubic complexes. 90e:14053
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- Green, Paul S. (with Hübsch, Tristan; Lütken, C. A.) All the Hodge numbers for all Calabi-Yau complete intersections. 90h:14067
- Greene, B. R. Special points in three-generation moduli space. 90h:14068
- see also Distler, Jacques; et al., 90h:14061
- Hübsch, Tristan see Green, Paul S.; et al., 90h:14067
- Jaffe, David B. On set theoretic complete intersections in P^3 . 90m:14048a
- Erratum: "On set theoretic complete intersections in P^3 ". 90m:14048b
- Kim, Jae Kwan (with Park, Chung Joo; Yoon, Yongsung) Calabi-Yau manifolds from complete intersections in products of weighted complex projective spaces. 90h:14069
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- Thoma, Apostolos Monomial space curves in P^3 as binomial set theoretic complete intersections. 90h:14033
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- Delgado de la Mata, Félix The symmetry of the Weierstrass generalized semigroups and affine embeddings. 90h:14034
- Ganoulis, N. (with Lazarides, G.; Shafr, Q.) Classification of three generation superstring models according to their discrete symmetries. 90h:14054
- Gattazzo, R. see Craigheo, P. C., 90h:14039
- Helme, Audun Codimension 2 subvarieties of projective space. 90h:14068
- Jijchenko, A. B. On embedded tangent and secant varieties of projective algebraic varieties. 90h:14055
- Kim, Jae Kwan (with Park, Chung Joo; Yoon, Yongsung) Calabi-Yau manifolds from $N = 2$ Landau-Ginzburg superconformal theories. 90h:14049
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- see also Ganoulis, N.; et al., 90h:14054
- Maggioli, Renato (with Ragusa, Alfio) Construction of smooth curves of P^3 with assigned Hilbert function and generators' degrees. 90h:14029
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14M20 Rational varieties

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Degoli, Lando Sur l'utilisation des déterminants dans les systèmes linéaires des quadriques. [On using determinants in linear systems of quadrics] 90j:51031b

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Drechsler, Konrad (with Stierz, Ulrich) Completion of the variety of conics with respect to contact conditions. I. 90j:14073

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— A note on the intersection of a hypersurface with a finite set of points in P^n . 90j:14076

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— The topological classification of cubic curves. 90b:14069

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Cucker, Felipe (with Pardo, L. M.; Raimondo, M.; Recio Muñoz, Tomás J.; Roy, M.-F.) On the computation of the local and global analytic branches of a real algebraic curve. 90j:14020

Herzer, A. Generalized Segre varieties. (Italian) 90b:51005

Pardo, L. M. see Cucker, Felipe; et al., 90j:14020

Raimondo, M. see Cucker, Felipe; et al., 90j:14020

Recio Muñoz, Tomás J. see Cucker, Felipe; et al., 90j:14020

Roy, M.-F. see Cucker, Felipe; et al., 90j:14020

15-XX Linear and multilinear algebra; matrix theory (finite and infinite)

15-01 Elementary exposition; textbooks

Aroca Hernández-Ros, José M. (with Fernández Bernejo, María Josefa) ★ Álgebra lineal y geometría. (Spanish) [Linear algebra and geometry] 90e:15001

(Ault, J. C.) see Neft, W., 90g:15001

Barker, G. P. see Schneider, Hans, 90g:15002

Bondarenko, M. F. (with Shabanov-Kushnarenko, S. Yu.) Linear predicates. (Russian) 90m:15001

Deng, Chai Ling (with Lim, Chong Keang) Augmentation and decomposition of k -requirement matrices. 90m:15002

Fernández Bernejo, María Josefa see Aroca Hernández-Ros, José M., 90e:15001

Friedberg, Stephen H. (with Insel, Arnold J.; Spence, Lawrence E.) ★ Linear algebra. 90i:15001

Gelfand, I. M. ★ Lectures on linear algebra. 90j:15001

Griffel, D. H. ★ Linear algebra and its applications. Vol. 1. 90f:15001a

— ★ Linear algebra and its applications. Vol. 2. 90f:15001b

Herstein, I. N. (with Winter, David J.) ★ Matrix theory and linear algebra. 90h:15001

Horn, Roger A. (with Johnson, Charles Royal) ★ Матричный анализ. (Russian) [Matrix analysis] 90e:15002

(Ikramov, Kh. D.) see Horn, Roger A., 90e:15002

Insel, Arnold J. see Friedberg, Stephen H.; et al., 90i:15001

Johnson, Charles Royal see Horn, Roger A., 90e:15002

(Kayazev, Andrei Vladimirovich) see Horn, Roger A., 90e:15002

Lang, Serge ★ Linear algebra. 90b:15001

Lim, Chong Keang see Deng, Chai Ling, 90m:15002

Lorenz, Falko ★ Lineare Algebra. II. (German) [Linear algebra. II] 90f:15002

- Marcus, Marvin (with Minc, Henryk) ★ Introduction to linear algebra. 90h:15002
 Minc, Henryk see Marcus, Marvin, 90h:15002
 Nef, W. ★ Linear algebra. 90g:15001
 Schneider, Hans (with Barker, G. P.) ★ Matrices and linear algebra. 90g:15002
 Shabanov-Kushnarenko, S. Yu. see Bendarenko, M. F., 90m:15001
 (Shapiro, Z. Ya.) see Gelfand, I. M., 90j:15001
 (Shenitzer, A.) see Gelfand, I. M., 90j:15001
 Spence, Lawrence E. see Friedberg, Stephen H.; et al., 90i:15001
 (Tyrtshnikov, E. E.) see Horn, Roger A., 90e:15002
 Winter, David J. see Herstein, I. N., 90h:15001

Items with secondary classifications in 15-01

- Dadayan, A. A. (with Dadarenko, V. A.) ★ Алгебра и геометрия. (Russian) [Algebra and geometry] 90m:00005
 Dadarenko, V. A. see Dadayan, A. A., 90m:00005
 Jacobson, Nathan ★ Basic algebra. II. 90m:00007
 Kalman, Dan The axis of a rotation: analysis, algebra, geometry. 90j:51015
 (Sistlan, Jean) see Smirnov, Vladimir Ivanovich, 90k:00002a
 Smirnov, Vladimir Ivanovich ★ Cours de mathématiques supérieures. Tome III. Première partie. (French) [Course of higher mathematics. Vol. III. Part I] 90k:00002a

15-02 Advanced exposition (research surveys, monographs, etc.)

- Belitskii, G. R. (with Lyubich, Yu. I.) ★ Matrix norms and their applications. 90g:15003
 Gantmakher, F. R. ★ Теория матриц. (Russian) [Theory of matrices] 90a:15001
 (Jacob, Andrei) see Belitskii, G. R., 90g:15003
 (Lidskii, V. B.) see Gantmakher, F. R., 90a:15001
 Lyubich, Yu. I. see Belitskii, G. R., 90g:15003

Items with secondary classifications in 15-02

- Volkmer, Hans ★ Multiparameter eigenvalue problems and expansion theorems. 90d:47021

Items listed otherwise than by author

- Lecture Notes in Mathematics see Volkmer, Hans, 90d:47021

15-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 15-03

- (Burali-Forti, Cesare) see Fruguglia, Paolo, 90c:01034
 Fruguglia, Paolo Cesare Burali-Forti and studies on geometric calculus. (Italian) 90c:01034
 Halmos, P. R. Fifty years of linear algebra: a personal reminiscence. 90h:01049
 Taussky, Olga How I became a torchbearer for matrix theory. 90d:01077

15-04 Explicit machine computation and programs (not the theory of computation or programming)

- Strauss, Nicholas Algorithm and implementation for computation of Jordan form over $A[x_1, \dots, x_n]$. 90e:15003

Items with secondary classifications in 15-04

- Davenport, J. H. Algebraic computations and structures. 90e:12002
 Garzon, Max see Zalcstein, Y., 90e:68052
 Robert, Yves (with Trystram, Denis) Optimal scheduling algorithms for parallel Gaussian elimination. (French summary) 90j:65167
 Trystram, Denis see Robert, Yves, 90j:65167
 Ufimtsev, P. V. A complex of programs for solving partial problems. (Russian) 90h:65042
 Zalcstein, Y. (with Garzon, Max) An NC² algorithm for testing similarity of matrices. 90e:68052

15-06 Proceedings, conferences, etc.

- (Berman, Abraham) see Proceedings: Matrix Theory Conference, 90c:15001
 (Hernández, Vicente) see Linear algebra and applications. (Not in MR)
 (Hershkowitz, Daniel) see Proceedings: Matrix Theory Conference, 90c:15001
 (Lever, L.) see Proceedings: Matrix Theory Conference, 90c:15001
 (Neumann, Michael) see Linear algebra and applications. (Not in MR)
 (de Oliveira, Graciano) see Linear algebra and applications. (Not in MR)

Items listed otherwise than by author

Conference:

- Linear Algebra and Applications ★ Linear algebra and applications. (Not in MR)
 Matrix Theory ★ Proceeding of the Fourth Haifa Matrix Theory Conference. 90c:15001
 Haifa ★ Proceeding of the Fourth Haifa Matrix Theory Conference. 90c:15001
 Linear algebra and applications ★ Linear algebra and applications. (Not in MR)

Proceedings:

- Matrix Theory Conference ★ Proceeding of the Fourth Haifa Matrix Theory Conference. 90c:15001

- Valencia ★ Linear algebra and applications. (Not in MR)

Items with secondary classifications in 15-06

- (Barnett, Stephen) see Applications of matrix theory, 90j:00015
 (Dym, H.) see Gohberg anniversary collection, 90k:00026
 (Gohberg, I.) see Gohberg anniversary collection, 90k:00026
 (Goldberg, Seymour) see Gohberg anniversary collection, 90k:00026
 (Gover, M. J. C.) see Applications of matrix theory, 90j:00015
 (Kaashoek, M. A.) see Gohberg anniversary collection, 90k:00026
 (Lancaster, Peter) see Gohberg anniversary collection, 90k:00026

Items listed otherwise than by author

- Applications of matrix theory ★ Applications of matrix theory. 90j:00015

- Bradford ★ Applications of matrix theory. 90j:00015

- Calgary, AB ★ The Gohberg anniversary collection. Vol. I. 90k:00026

Conference:

- Applications of Matrix Theory ★ Applications of matrix theory. 90j:00015
 Operator Theory: Advances and Applications ★ The Gohberg anniversary collection. Vol. I. 90k:00026

- Gohberg anniversary collection ★ The Gohberg anniversary collection. Vol. I. 90k:00026

15A03 Vector spaces, linear dependence, rank

- Gupta, Ashok Kumar see Kumar, Gajendra, 90d:15001
 Kumar, Gajendra (with Gupta, Ashok Kumar) Unit linear sets. I. 90d:15001
 Meshulam, Roy On two extremal matrix problems. 90g:15004
 — On k -spaces of real matrices. 90j:15002
 Nzumba, Likeke Akulla Un algorithme pour extraire d'une famille de vecteurs toutes les bases du sous-espace engendré par cette famille. (English summary) [An algorithm for deriving from a family of vectors all of the bases of a subspace generated by that family] 90d:15002
 Redheffer, Ray (with Volkmann, Peter) Positive linear functionals and the order cone. 90h:15003
 Rung, Josef Zur Einführung der Vektorraumdimension. [Introducing the vector space dimension] 90g:15005
 de Sá, Eduardo Marques The rank of the difference of similar matrices. 90j:15003
 Tu, Bo Xun Identities and inequalities on the rank of submatrices of a matrix over a division ring. (Chinese. English summary) 90i:15002
 Volkmann, Peter see Redheffer, Ray, 90h:15003
 Wollson, K. Linear dependence of a function set of m variables with vanishing generalized Wronskians. 90d:15003
 Zhu, Zhong Nan The relationship between orthogonal subspaces and decomposable tensors in Grassmann spaces. (Chinese. English summary) 90f:15003

Items with secondary classifications in 15A03

- ten Berge, Jos M. F. (with Kiers, Henk A. L.; de Leeuw, Jan) Explicit CANDECOMP/PARAFAC solutions for a contrived $2 \times 2 \times 2$ array of rank three. 90h:62246
 Biswas, R. Fuzzy fields and fuzzy linear spaces redefined. 90k:03050
 Bihouty, Nader H. A lower bound for matrix multiplication. 90g:15042
 Hefez, Abramo (with Thorup, A.) Symmetric matrices with alternating blocks. 90g:14036
 Kass, Seymour Spaces of closest fit. 90f:51018
 Kiers, Henk A. L. see ten Berge, Jos M. F.; et al., 90h:62246
 de Leeuw, Jan see ten Berge, Jos M. F.; et al., 90h:62246
 Lorenz, Falko ★ Lineare Algebra. II. (German) [Linear algebra. II] 90f:15002
 Martins, Luis C. An analytical approach to Cayley-Hamilton theorem. (Italian summary) 90e:15016
 Thorup, A. see Hefez, Abramo, 90g:14036
 Verardi, Libero Vector spaces of invertible matrices and associated groups. (Italian. English summary) 90m:20042

15A04 Linear transformations, semilinear transformations

- Beasley, LeRoy B. (with Pullman, Norman J.) Linear operators that strongly preserve primitivity. 90h:15004
 Cheng, Ru Jie see Pan, Wan Fu; et al., 90j:15004
 Guo, Shu Lan see Pan, Wan Fu; et al., 90j:15004
 Guo, Zhong Heng (with Podio-Guidugli, Paolo) A concise proof of the representation theorem for linear isotropic tensor-valued mappings of a skew argument. 90h:15005
 Heinbeck, G. On the representability of vector space endomorphisms by projections. 90d:15004
 Laffey, T. J. (with Loewy, Raphael) Linear transformations which do not increase rank. 90m:15003
 Loewy, Raphael Linear transformations which preserve or decrease rank. 90h:15006
 — see also Laffey, T. J., 90m:15003
 Pan, Wan Fu (with Cheng, Ru Jie; Guo, Shu Lan) A representation of linear transformations by ordered sets of vectors. (Chinese. English summary) 90j:15004
 Podio-Guidugli, Paolo see Guo, Zhong Heng, 90h:15005
 Pullman, Norman J. see Beasley, LeRoy B., 90h:15004
 Reichstein, Boris On classification of invariant subspaces of a linear operator. 90m:15004
 Wilde, Alan C. Properties of affine projections. (Italian summary) 90h:15007

Items with secondary classifications in 15A04

- Chen, Hsin-Chu (with Sameh, A.) A matrix decomposition method for orthotropic elasticity problems. 90a:65097
 Li, Chi-Kwong (with Tsing, Nam-Kiu) Duality between some linear preservers problems: the invariance of the C -numerical range, the C -numerical radius and certain matrix sets. 90m:15041
 Loewy, Raphael Linear maps that preserve an inertia class. 90k:15009
 Nikodem, Kazimierz Extreme points and linear transformations. 90m:46015
 Sameh, A. see Chen, Hsin-Chu, 90a:65097
 Trajković, Ljiljana (with Willson, Alan N., Jr.) Replacing a transistor with a compound transistor. 90d:94012
 Tsing, Nam-Kiu see Li, Chi-Kwong, 90m:15041
 Willson, Alan N., Jr. see Trajković, Ljiljana, 90d:94012

15A06 Linear equations

- Asanov, A. A commutative ring and a system of equations over it. (Russian) 90m:15005
 Borne, P. see Rotella, F., 90j:15005
 Chen, Yong Lin A simple criterion for the solvability of a special class of systems of linear equations. (Chinese) 90c:15002

- Duca, Dorel I. Theorem of Motzkin's alternative for nonhomogeneous complex linear equations and inequalities. 90f:15004
- de Malafosse, Bruno. *see* Mascart, Henri, 90h:15008 and 90h:15009
- Mascart, Henri (with de Malafosse, Bruno) Systèmes linéaires infinis associés à des séries entières. (English summary) [Infinite linear systems associated with power series] 90h:15008
- (with de Malafosse, Bruno) Caractérisation des espaces images d'une classe de systèmes linéaires infinis. (English summary) [Characterization of the image spaces of a class of infinite linear systems] 90h:15009
- Orr, J. W. A geometrical approach to Cramer's rule. 90g:15006
- Rotella, F. (with Borne, P.) Explicit solution of Sylvester and Lyapunov equations. 90j:15005
- Valitskii, Yu. N. A method for solving a system of linear equations with a Vandermonde matrix. (Russian) 90g:15007
- Verlan, I. I. Positive solutions of systems of linear algebraic equations with Jacobian matrices of coefficients. (Russian) 90f:15002
- Wang, Gao Rong¹ A Cramer rule for finding the solution of a class of singular equations. 90c:15003
- Yang, Yao Sen Conditions for the existence of unique solutions to a class of constrained systems of equations. (Chinese. English summary) 90i:15003

Items with secondary classifications in 15A06

- Charrier, P. (with Roman, J.) Algorithmique et calculs de complexité pour un solveur de type dissections emboîtées. (English summary) [Algorithmic study and complexity bounds for a nested dissection solver] 90m:65083
- Davydov, E. G. (with Isichenko, I. V.) ★ Некоторые дискретные задачи теории управления. (Russian) [Some discrete problems in control theory] 90d:93059
- Dibowski, Klaus Numerical calculation of the whole solution set in linear discrete L_1 approximation. (Russian and Polish summaries) 90a:90114
- Duca, Dorel I. On the Farkas type theorem for complex linear equations and inequalities. 90k:90118
- Freund, Roland Wilhelm On polynomial approximations to $f_a(z)(z-a)^{-1}$ with complex a and some applications to certain non-Hermitian matrices. 90j:41008
- Galba, E. F. *see* Molchanov, I. N., 90j:15011
- Grod, I. N. *see* Mitropol'skii, Yu. A., 90m:34108
- Hartfiel, D. J. Cone control on nonnegative control equations. 90m:93082
- Hegedüs, Cs. J. General recursions of Hestenes-Stiefel type for conjugate directions. II. The reverse recursion. (Hungarian. English summary) 90a:65110
- Isichenko, I. V. *see* Davydov, E. G., 90d:93059
- Kaczorek, Tadeusz Decomposition of 2-D linear systems into 1-D systems in the frequency domain. 90b:49047
- Kečlik, Jovan D. On some generalized inverses of matrices and some linear matrix equations. 90m:15007
- Kimura, Morishige Doubling algorithm for continuous-time algebraic Riccati equation. 90g:93040
- Krause, Gerd M. *see* Mehrmann, Volker, 90f:93017
- Krishna, Bal (with Krishna, Hari) Computationally efficient reduced polynomial based algorithms for Hermitian Toeplitz matrices. 90m:65063
- Krishna, Hari *see* Krishna, Bal, 90m:65063
- Lee, E. Bruce *see* Louisell, J., 90c:93012
- Lorenz, Falko ★ Lineare Algebra. II. (German) [Linear algebra. II] 90f:15002
- Louisell, J. (with Lee, E. Bruce) Further results on controllability and the linear equation $Ax = b$. 90c:93012
- Markov, K. N. *see* Markov, S. I., 90f:65249
- Markov, S. I. (with Markov, K. N.) Parallel numerical algorithms for high-speed multiprocessor computer complexes. Solution of a system of linear equations. (Bulgarian. English and Russian summaries) 90f:65249
- Mehrmann, Volker (with Krause, Gerd M.) Linear transformations which leave controllable multi-input descriptor systems controllable. 90f:93017
- Mitropol'skii, Yu. A. (with Grod, I. N.) Some problems of invariant manifolds, and sign-variable Lyapunov functions. (Russian) 90m:34108
- Molchanov, I. N. (with Galba, E. F.) Weighted pseudo-inversion of matrices with positive-definite weights. (Russian. English summary) 90j:15011
- Noritzsch, Thomas (with Roloff, Hartmut) Lineare Gleichungssysteme über Hauptidealringen. [Linear systems of equations over principal ideal rings] 90e:13018
- Roloff, Hartmut *see* Noritzsch, Thomas, 90e:13018
- Roman, J. *see* Charrier, P., 90m:65083
- Romm, Ya. E. *see* Surzhenko, I. F., 90g:65188
- Sánchez-Giralda, T. Exactness of complexes and systems of equations. (Spanish. French summary) 90a:13030
- Sergeichuk, V. V. Pseudolinear matrix pencils and systems of linear differential equations with meromorphic coefficients. 90k:34046
- Surzhenko, I. F. (with Romm, Ya. E.) On computer error in parallel algorithms. 90g:65188
- Ziętak, K. Properties of the l_1 -solutions of the linear matrix equation $AX + YB = C$. 90a:65096

15A09 Matrix inversion, generalized inverses

- Amdebrhan, Tewodros *see* Heinig, Georg, 90j:15007
- Bayhan, Mahmut On the use of generalized inverse matrices and linear restrictions in the solution of linear systems. (Turkish summary) 90j:15006
- Cao, Chong Guang Generalized inverses of matrices over a ring. (Chinese) 90f:15005
- Chun, J. (with Kailath, Thomas) A constructive proof of the Gohberg-Semencul formula. 90h:15010
- *see also* Kailath, Thomas, 90m:15006
- Dragomir, A. (with Dragomir, P.) Formulas of the Bjerhammar type for the generalized inverse of an arbitrary matrix. 90a:15002
- Dragomir, P. *see* Dragomir, A., 90a:15002
- Galba, E. F. *see* Molchanov, I. N., 90j:15011

- Getson, Albert J. (with Hsuan, Francis C.) ★ (2)-inverses and their statistical application. 90c:15004
- Gilbert, Jimmie D. An efficient geometric characterization of the generalized inverses of a matrix. 90a:15003
- Heinig, Georg (with Amdebrhan, Tewodros) On the inverses of Hankel and Toeplitz mosaic matrices. 90j:15007
- (with Rost, Karla) Inversion of matrices with displacement structure. 90j:15008
- Hsuan, Francis C. *see* Getson, Albert J., 90c:15004
- Huybreuck, D. (with Puystjens, R.; Van Geel, Jan) The Moore-Penrose inverse of a matrix over a semi-simple Artinian ring with respect to an involution. 90f:15006
- Ikrarov, Kh. D. Inverses of diagonally dominant block matrices. 90j:15009
- Jiang, Chang Jin Some inverse problems for systems of linear equations. (Chinese) 90e:15005
- Jiang, Zhi Hua New method for computing the inverse of a matrix whose elements are linear combinations of Walsh functions. (Not in MR)
- Kaffes, Demetrios G. (with Mathew, Thomas¹; Rao, M. Bhaskara; Subramanyam, K.) On the matrix convexity of the Moore-Penrose inverse and some applications. 90j:15010
- Kailath, Thomas (with Chun, J.) Generalized Gohberg-Semencul formulas for matrix inversion. 90m:15006
- *see also* Chun, J., 90h:15010
- Kečlik, Jovan D. On some generalized inverses of matrices and some linear matrix equations. 90m:15007
- Kislovskaya, N. M. A pseudo-inverse matrix and multiplicative groups of matrices. (Russian) 90m:15008
- Lewin, Mordechai On inverse M -matrices. 90f:15007
- Liu, Yong Fa The use of elementary transformations to find generalized inverses of matrices. (Chinese) (Not in MR)
- Liu, Bo Lian Some characterizations of generalized inverses of Boolean matrices. (Chinese) 90h:15011
- Mathew, Thomas¹ *see* Kaffes, Demetrios G.; et al., 90j:15010
- Meenakshi, A. R. (with Rajian, C.) On sums and products of star-dagger matrices. 90e:15006
- Molchanov, I. N. (with Galba, E. F.) Weighted pseudo-inversion of matrices with positive-definite weights. (Russian. English summary) 90j:15011
- Puystjens, R. *see* Huybreuck, D.; et al., 90f:15006
- Rajian, C. *see* Meenakshi, A. R., 90e:15006
- Rao, M. Bhaskara *see* Kaffes, Demetrios G.; et al., 90j:15010
- Rost, Karla *see* Heinig, Georg, 90j:15008
- Semerdzhiy, Khristo (with Yamaleev, R. M.) Method for inversion of one class of polynomial matrices. 90i:15004
- Singh, S. Nabachandra A characterization of the maximal submatroid of the matroid of $n \times n$ matrices. 90a:15004
- Singh, Soibam Nabachandra Some theorems on submatroid of a matroid. 90b:15003
- Stewart, G. W. On scaled projections and pseudoinverses. 90d:15005
- Subramanyam, K. *see* Kaffes, Demetrios G.; et al., 90j:15010
- Tu, Bo Xun Lower bounds on the rank of a centralizable matrix over the skew field of real quaternions and their application. (Chinese) 90j:15008
- Van Geel, Jan *see* Huybreuck, D.; et al., 90f:15006
- Yamaleev, R. M. *see* Semerdzhiy, Khristo, 90i:15004
- Zhao, Cai Kui Inverses of L -fuzzy matrices. 90m:15009
- Zhuang, Wa Jin Some explicit forms for the p -Moore-Penrose inverses of matrices over an arbitrary skew field. (Chinese. English summary) 90g:15009

Items with secondary classifications in 15A09

- Assi, N. *see* Tadeusiewicz, M., (90m:94004)
- Bakalary, Jerry K. (with Pukelsheim, Friedrich; Styan, George P. H.) Some properties of matrix partial orderings. 90h:15022
- Bufoni, Giuseppe Nonnegative and skew-symmetric perturbations of a matrix with positive inverse. 90g:65038
- Chan, Nai Ng (with Li, Kim Hung) Theory and computation of restricted linear models. 90k:62139
- Chen, Gao Liang¹ The minimality of the condition number for matrix inversion in some perturbation problems. (Chinese. English summary) 90f:65060
- Datta, Lokesh (with Morgera, S. D.) On the reducibility of centrosymmetric matrices—applications in engineering problems. 90g:15020
- Dedieu, Jean-Pierre Matrix homographic iterations and bounds for the inverses of certain band matrices. 90a:65058
- Egecioglu, Ö. (with Rummel, J. B.) A combinatorial interpretation of the inverse Kostka matrix. 90m:05011
- El-Amawy, Ahmed A systolic architecture for fast dense matrix inversion. 90a:65055
- Freund, Roland Wilhelm On polynomial approximations to $f_a(z)(z-a)^{-1}$ with complex a and some applications to certain non-Hermitian matrices. 90j:41008
- Gohberg, I. (with Lerer, L.) Matrix generalizations of M. G. Krein theorems on orthogonal polynomials. (see 90k:41001)
- (with Shalom, T.) On inversion of square matrices partitioned into nonsquare blocks. 90h:47006
- Gover, M. J. C. Properties of the elements of generalised Bezoutian matrices and their inverses. 90m:15027
- Guo, Zhong Criterion of positive definiteness of matrices and solution of inverse problem for system of linear equations. 90e:15029
- Harte, Robin Invertibility and singularity of operator matrices. 90a:15019
- Haviv, Moshe More on Rayleigh-Ritz refinement technique for nearly uncoupled stochastic matrices. 90m:65068
- Heinig, Robert L. Proof for Searls' matrix inversion algorithm. 90e:65037
- Jódar, Lucas An algebraic approach for solving boundary value matrix problems: existence, uniqueness and closed form solutions. 90a:34038
- Kindalev, B. S. A sharp estimate for the norm of an inverse matrix for a symmetric circulant. (Russian) 90f:65061
- Kuo, Yueh-er *see* Namkung, Agnes Inja, 90i:65056

- Lamond, Bernard F.** (with Puterman, Martin L.) Generalized inverses in discrete time Markov decision processes. 90c:90233
- Lerer, L.** see Gohberg, I., 90k:41001
- Li, Kim Hung** see Chan, Nai Ng, 90k:62139
- Liski, Erkki P.** (with Puntanen, Simo) A further note on a theorem on the difference of the generalized inverses of two nonnegative definite matrices. 90k:62105
- Liu, Xuan Huang** see Peng, Shou Quan, 90i:65070
- Losiak, Janina** (with Neuman, E.; Nowak, Jolanta) The inversion of cyclic tridiagonal matrices. 90h:65038
- de Malafosse, Bruno** Systèmes linéaires infinis admettant une infinité de solutions. (English summary) [Infinite linear systems with infinitely many solutions] 90c:47012
- Manturov, O. V.** (with Martynuk, A. N.) An algorithm in the theory of a multiplicative integral. (Russian) 90j:26021
- Mao, Gang Yuan** A simpler proof of inverse matrices of cyclic matrices, and elementary algorithms for inverse matrices of arithmetic-geometric cyclic matrices. (Chinese. English summary) (Not in MR)
- Martynuk, A. N.** see Manturov, O. V., 90j:26021
- Morgera, S. D.** see Datta, Lokesh, 90g:15020
- Namkung, Agnes Inja** (with Kuo, Yueh-er) A note on matrix inversion. 90i:65056
- Neuman, E.** see Losiak, Janina; et al., 90h:65038
- Nowak, Jolanta** see Losiak, Janina; et al., 90h:65038
- Ogawa, Hideemitsu** An operator pseudo-inversion lemma. 90a:47003
- Peng, Shou Quan** (with Liu, Xuan Huang) Numerical calculation formulas for generalized inverse matrices. (Chinese. English summary) 90i:65070
- Pukelsheim, Friedrich** see Baksalary, Jerzy K.; et al., 90h:15022
- Puntanen, Simo** see Liski, Erkki P., 90k:62105
- Puterman, Martin L.** see Lamond, Bernard F., 90c:90233
- Puystjens, R.** Some aspects of generalized invertibility. 90k:47004
- Rammel, J. B.** see Egencioglu, Ö., 90m:05011
- Semerdzhiy, Khristo** (with Yamaleev, R. M.) A method for inverting a class of polynomial matrices. (Russian. English summary) 90m:65066
- Shalom, T.** see Gohberg, I., 90h:47006
- Styan, George P. H.** see Baksalary, Jerzy K.; et al., 90h:15022
- Tadusiewicz, M.** (with Assi, N.) An algorithm for generation of nodal impedance matrix for networks with couplings. (see 90m:94004)
- Thomassen, Carsten** When the sign pattern of a square matrix determines uniquely the sign pattern of its inverse. 90f:05099
- Vandewalle, Joon** see Van Huffel, Sabine, 90m:65080
- Van Huffel, Sabine** (with Vandewalle, Joon) Algebraic connections between the least squares and total least squares problems. 90m:65080
- Vavrin, Zdeněk** Remarks on complexity of polynomial and special matrix computations. 90m:65092
- Verardi, Libero** Vector spaces of invertible matrices and associated groups. (Italian. English summary) 90m:20042
- Verde-Star, Luis** Biorthonormal systems, partial fractions, and Hermite interpolation. 90i:41013
- Wimmer, Harald K.** Bezoutians of polynomial matrices and their generalized inverses. 90i:41013
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- Zhang, Shou Yuan** Inversion of unimodular matrices. 90a:93030
- Zimmerman, Dale L.** Block Toeplitz products of block Toeplitz matrices. 90j:15026
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- ### 15A12 Conditioning of matrices [see also 65F35]
- Items with secondary classifications in 15A12
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- Chen, Guo Liang** The minimality of the condition number for matrix inversion in some perturbation problems. (Chinese. English summary) 90f:65060
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- Kirstein, Bernd** see Fritzsche, Bernd, 90c:15025
- Spedicato, Emilio** Optimal conditioning parameter selection in the ABS class for linear algebraic systems. (Portuguese summary) 90b:65081
- Seale, Thomas** Criteria for the nonsingularity of partitioned matrices. 90i:65077
- ### 15A15 Determinants, permanents, other special matrix functions [see also 19B10, 19B14]
- Barrett, Wayne W.** (with Johnson, Charles Royal; Lundquist, Michael) Determinantal formulae for matrix completions associated with chordal graphs. 90m:15010
- Bebiano, Natália** (with Poon, Yiu-Tung; da Providência, João) On c -det spectral and c -det-convex matrices. 90g:15010
- Bogart, Kenneth P.** A fresh (man) treatment of determinants. 90j:15012
- Böttcher, Albrecht** Asymptotic formulas for rationally generated block Toeplitz determinants. 90i:15005
- Chang, Derek K.** Minimum and maximum permanents of certain doubly stochastic matrices. 90f:15008
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- Kovalenko, S. P.** Associated matrices. (Russian. English summary) 90a:15005
- Larsen, Mogens Esrom** Josef Wichmann's harmonic Wronskians. 90k:15001
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- Li, Zi Ming** Determinant polynomial sequences. (Chinese) (Not in MR)
- London, David** (with Minc, Henryk) On the permanent of doubly stochastic matrices with zero diagonal. 90m:15012
- Lundquist, Michael** see Barrett, Wayne W.; et al., 90m:15010
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- Merikoski, Jorma Kaarlo** (with Virtanen, Ari) Some notes on de Oliveira's determinantal conjecture. 90g:15014
- Minc, Henryk** see London, David, 90m:15012
- Nishi, Akihito** Simple derivation of Binet-Minc formula and Ryser formula on the evaluation of permanents. 90h:15014
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- Song, Seok-Zun** Minimum permanents on certain faces of matrices containing an identity submatrix. 90a:15008
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- Böttcher, Albrecht** L. V. Mikhaev's conjecture in the theory of Wiener-Hopf determinants. (Russian) 90g:45010
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- Cohn, J. H. E.** On determinants with elements ± 1 . II. 90d:05051
- Datta, Lokesh** (with Morgera, S. D.) On the reducibility of centrosymmetric matrices—applications in engineering problems. 90g:15020
- Delforge, Jacques** Relations between the main approaches to linear system identifiability: application to calculation of Jacobian matrices determinants. 90g:93031
- Fröberg, Carl-Erik** On a combinatorial problem related to permanents. 90d:05005
- Gavrilov, Mikhail** On trace identities in matrix algebra. (Bulgarian. English and Russian summaries) 90c:16013
- Gohberg, I.** (with Lerer, L.) Matrix generalizations of M. G. Krein theorems on orthogonal polynomials. (see 90k:41001)
- (Hao, Zhi Chuan)** see Yang, Zhong Peng, 90e:15022
- Kaczorek, Tadeusz** (with Świerkosz, M.) Determination of matrices of the desired 2-D characteristic polynomial. 90c:93017
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- Kovalenko, S. P.** On induced matrices. (Russian. English summary) 90g:15037
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- Marcus, Marvin** (with Sandy, Markus) Bessel's inequality in tensor space. 90h:15038
- (with Smith, Terence R.) A note on the determinants and eigenvalues of distance matrices. 90i:15020
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- Allwright, J. C. On maximizing the minimum eigenvalue of a linear combination of symmetric matrices. 90g:15016
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- Norman, C. W. Resultants and Lyapunov matrix equations. 90a:15017
- Ofshevskii, V. R. Semistability of the dimension of the linear hull of eigen- and associated vectors of a holomorphic operator function. (Russian) 90a:47037
- Panier, Eliane R. On the need for special purpose algorithms for minimax eigenvalue problems. 90g:90144
- Petz, Dénes (with Zemánek, Jaroslav) Characterizations of the trace. 90c:46075
- Rachid, A. Comments on: "Another sufficient condition for the stability of interval matrices" [Internat. J. Control 47 (1988), no. 1, 181–186; MR 89c:93072] by Chung Li Jiang. 90a:93094
- Romm, Ya. E. *see* Surzhenko, I. F., 90g:65188
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- Thompson, Robert C. The matrix valued triangle inequality: quaternion version. 90e:15020
- Trench, William F. Numerical solution of the eigenvalue problem for symmetric rationally generated Toeplitz matrices. 90b:65071
- Tsing, Nam-Kiu *see* Li, Chi-Kwong, 90m:15042 and 90m:15043
- Waters, Steven R. *see* Hill, Richard D.; et al., 90m:15037
- Watkins, D. S. (with Elsner, L.) Self-equivalent flows associated with the generalized eigenvalue problem. 90g:65056
- (with Elsner, L.) Self-equivalent flows associated with the singular value decomposition. 90m:65064
- Widom, Harold On the singular values of Toeplitz matrices. (German and Russian summaries) 90c:47058
- Willms, N. B. *see* Gladwell, G. M. L., 90f:65052
- Wimmer, Harald K. Strong solutions of the discrete-time algebraic Riccati equation. 90m:93043
- Xu, De Yu New estimates for the eigenvalues of products of positive definite Hermitian matrices. (Chinese) 90g:15040
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- Zemánek, Jaroslav *see* Petz, Dénes, 90c:46075
- Zhang, De Tong (with Li, Tien-Yien; Feng, Guo Chen) Homotopy method for real symmetric generalized eigenvalue problem $AX = \lambda BX$. 90f:65056

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- Adkins, William A. Simultaneous diagonalization of matrices parametrized by a projective algebraic curve. 90e:15011
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- Baragaña, Itziar Interlacing inequalities for regular pencils. 90g:15019
- Bart, H. (with Thijse, G. Ph. A.) Simultaneous complementary triangular forms for pairs of matrices. (See 90j:00015)
- (with Thijse, G. Ph. A.) Complementary triangular forms of upper triangular Toeplitz matrices. 90m:15017
- Berman, Simon J. (with Abian, Alexander) Jordan canonical forms of matrices AB and BA . (Italian summary) 90b:15020
- Bradford, R. J. Hermite normal forms for integer matrices. 90m:15018
- Brändas, E. *see* Reid, Charles E., 90j:15023
- Datta, Lokesha (with Morgera, S. D.) On the reducibility of centrosymmetric matrices—applications in engineering problems. 90g:15020
- Gohberg, I. (with Kaashoek, M. A.; van Schagen, F.) Eigenvalues of completions of submatrices. 90m:15019
- He, Qing Tu Two important results on diagonalization of matrices over a field. (Chinese) 90e:15011b
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- Hong, Yoo Pyo (with Horn, Roger A.) A characterization of unitary congruence. 90j:15021
- A canonical form for Hermitian matrices under complex orthogonal congruence. 90h:15021
- Horn, Roger A. *see* Hong, Yoo Pyo, 90j:15021
- Ikrarov, Kh. D. A theorem on the diagonalization of a type of Hamiltonian from the point of view of the theory of operators in spaces with an indefinite metric. (Russian) 90j:15022
- Ivanov, S. A. Smooth diagonalization of Hermitian matrix functions. (Russian) 90m:15020
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- Longstaff, W. E. On tridiagonalization of matrices. 90b:15006
- Morgera, S. D. *see* Datta, Lokesha, 90g:15020
- Plisk, Vlastimil Linear fractional transformations and companion matrices. 90c:15006
- Reid, Charles E. (with Brändas, E.) On a theorem for complex symmetric matrices and its relevance in the study of decay phenomena. 90j:15023
- Sansigre, G. (with Alvarez, Manuel) On Bezoutian reduction with the Vandermonde matrix. 90i:15012
- van Schagen, F. *see* Gohberg, I.; et al., 90m:15019
- Silva, Fernando C. The rank of the difference of matrices with prescribed similarity classes. 90g:15021
- The rank of the difference of matrices with prescribed invariant factors. 90e:15013
- Surmehs, Bernd Tridiagonalization of complex matrices and a problem of Longstaff. 90b:15007
- Szule, Tomasz A criterion for the nonsingularity of irreducible matrices. (See 90i:65008)

- Thijse, G. Ph. A. *see* Bart, H., 90m:15017 and 90j:00015
- Thompson, Robert C. A divisibility nonrelation for the Smith invariants of a product of integral matrices. 90f:15012
- Vojtásek, Stanislav Some methods concerning Jordan matrices. 90m:15021
- Wang, Wei Xian A necessary and sufficient condition for irreducibility of a matrix. (Chinese) 90g:15022
- Wang, Zhong De Generalization of direct product and generation of sets of orthogonal functions. 90k:15004
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- Blanchini, Franco (with Policastro, Mario) Matrix bidiagonal form. 90g:93022
- Boudelloua, M. S. *see* Frost, M. G., 90d:93018
- Brenken, Berndt Classification of skew symmetric matrices. 90d:15022
- Brü, Rafael (with Neumann, Michael) Nonnegative Jordan bases. 90a:15024
- Crawley-Boevey, W. W. Functorial filtrations and the problem of an idempotent and a square-zero matrix. 90c:16045
- Demianczuk, O. *see* Pugh, A. C.; et al., 90j:93034
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- Leborgne, Daniel Quelques remarques sur la dualité de Pontryagin. (English summary) [Some remarks on Pontryagin duality] 90c:13020
- Longstaff, W. E. (with Radjavi, H.) On the equation $AB = BX$ in collections of matrices. 90i:15015
- Lorenz, Falko ★ Lineare Algebra. II. (German) [Linear algebra. II] 90f:15002
- Lak, Franklin T. (with Park, Haesun) Fault-tolerant matrix triangularizations on systolic arrays. 90a:68063
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- Beltia, Ma. Asunción (with Zaballa, Ion) Factorization of the matrix polynomial $A(\lambda) = A_0\lambda^l + A_1\lambda^{l-1} + \dots + A_{l-1}\lambda + A_l$. 90g:15023
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- Karcianas, N. (with Kalogeropoulos, G.) Right, left characteristic sequences and column, row minimal indices of a singular pencil. 90a:15012
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- (with Cohen, Nir; Ran, A. C. M.) Inverse spectral problems for regular improper rational matrix functions. 90m:47005
- Cao, Zhi Hao The computation of Kronecker canonical form of a symmetric singular matrix pencil. (Chinese summary) 90d:65068
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- Kublanovskaya, V. N. Solution of spectral problems for matrix pencils. 90b:65067
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- Ran, A. C. M. see Gohberg, I.; et al., 90m:47003 and Ball, Joseph A.; et al., 90m:47005
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- Ivanov, Nikolai I. (with Nikolov, Z. A.) A matrix factorization method for number-theoretic transformations. (Bulgarian. English and Russian summaries) 90m:15022
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- Brusset, A. M. (with Tveito, A.; Winther, R.) On the stability of relaxed incomplete LU factorizations. 90b:65047
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- Kon, B. A. Factorization of piecewise valued matrix functions and its applications. 90c:47034
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- Aliev, Fikret Akhmadali oglu (with Borydyug, B. A.; Larin, V. B.) Orthogonal projectors and the solution of the Riccati matrix algebraic equation. 90a:15015
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- Alpay, Daniel (with Gohberg, I.) On orthogonal matrix polynomials. (see 90k:41001)
- Andrica, Dorin (with Rădulescu, S., 90d:15013)
- Baksalary, Jerzy K. (with Pukelsheim, Friedrich; Styan, George P. H.) Some properties of matrix partial orderings. 90h:15022
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- Ben-Artzi, A. (with Gohberg, I.) Extension of a theorem of M. G. Krein on orthogonal polynomials for the nonstationary case. (see 90k:41001)
- Borydyug, B. A. (with Aliev, Fikret Akhmadali oglu; et al., 90a:15015 and 90a:15013)
- Chen, King-wah Eric Symmetric solutions of linear matrix equations by matrix decompositions. 90h:15023
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- Gohberg, I. (with Lerer, L.) Matrix generalizations of M. G. Krein theorems on orthogonal polynomials. (see 90k:41001)
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- Gover, M. J. C. Properties of the elements of generalised Bezoutian matrices and their inverses. 90m:15027
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- Bolzern, Paolo (with Bittanti, Sergio; et al., 90a:93025)
- Charlier, J.-P. (with Van Dooren, P.) A systolic algorithm for Riccati and Lyapunov equations. 90m:65082
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- Dym, H. Hermitian block Toeplitz matrices, orthogonal polynomials, reproducing kernel Pontryagin spaces, interpolation and extension. (see 90k:41001)
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- Lai, Yhean-Sen An algorithm for solving the matrix polynomial equation $B(s)D(s) + A(s)N(s) = H(s)$. 90h:93027
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- Salzberg, Pablo M. Tomography in projective spaces: a heuristic for limited angle reconstructive models. 90f:68173
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- Bernau, Simon J. (with Abian, Alexander) Jordan canonical forms of matrices AB and BA . (Italian summary) 90h:15020
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- Wang, Lu Qun Generalized ranks of matrices. (Chinese. English summary) 90j:15027
- Wang, Pin Chao (with Zhou, Shi Fan) Matrices over principal ideal rings. (Chinese. English summary) 90h:15027
- Wei, Wan Di (with Wang, Ben Fu) The properties of matrices $\alpha I + \beta J$ and some related problems. 90c:15008
- Yang, Ben Fu (see Wei, Wan Di, 90c:15008)
- Zhou, Shi Fan (see Wang, Pin Chao, 90h:15027)
- Items with secondary classifications in 15A30
- Bongartz, Klaus Gauß-Elimination und der größte gemeinsame direkte Summand von zwei endlichdimensionalen Moduln. [Gauss elimination and the greatest common direct summand of two finite-dimensional modules] 90g:16025
- Chekam, G. P. Local finiteness of algebras. (Russian) 90b:16021

- Chun, J. *see* Kailath, Thomas, 90m:15006
- Gun, Zhong Criterion of positive definiteness of matrices and solution of inverse problem for system of linear equations. 90e:15029
- Jiang, Chang Jin Some inverse problems for systems of linear equations. (Chinese) 90e:15005
- Jódar, Lucas (with Navarro, E.) Co-square roots of matrices and their application to boundary value differential matrix problems. 90e:15014
- Kailath, Thomas (with Chun, J.) Generalized Gohberg-Semencul formulas for matrix inversion. 90m:15006
- Navarro, E. *see* Jódar, Lucas, 90e:15014
- Tanahashi, Kôtarô (with Tomiyama, Jun) Indecomposable positive maps in matrix algebras. 90a:46156
- Tomiyama, Jun *see* Tanahashi, Kôtarô, 90a:46156
- van Wyk, L. On structural quasi-ideals and their idealizers in structural matrix rings. 90b:16033
- Zagaglia Salvi, N. On the solutions of a matrix equation. (Italian summary) 90g:15027
- Zimmerman, Dale L. Block Toeplitz products of block Toeplitz matrices. 90j:15026

15A33 Matrices over special rings (quaternions, finite fields, etc.)

- Cao, Chong Guang Some inequalities for the traces of selfadjoint quaternionic matrices. (Chinese. English summary) 90g:15029
- Donovan, Timothy P. Matrix squares over $GF(q)$, q odd. 90a:15018
- (Hao, Zhi Chuan) *see* Yang, Zhong Peng, 90e:15022
- Harte, Robin Invertibility and singularity of operator matrices. 90a:15019
- Thompson, Robert C. The matrix valued triangle inequality: quaternion version. 90e:15020
- Tu, Bo Xun An extension of Schur's theorem to the division ring of real quaternions. (Chinese) 90e:15021
- Criteria for nonsingularity of square matrices over the division ring of quaternions. (Chinese. English summary) 90g:15030
- The centralized basis theorem for self-conjugate real quaternion matrices and its applications. (Chinese. English summary) 90j:15028
- U/L decomposition of real quaternion matrices. (Chinese. English summary) 90m:15029
- Unitary similarity theory for square matrices over strong p -division rings. III. (Chinese. English summary) 90d:15014
- Wu, Ren Zhong Matrices over rings. (Chinese. English summary) 90m:15030
- Yang, Zhong Peng Comment: "Some theorems on self-conjugate quaternion matrices and determinants" [J. Math. Res. Exposition 5 (1985), no. 4, 15–20; MR 87k:15023] by Z. C. Hao. (Chinese. English summary) 90e:15022

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- Baragana, Itziar Interlacing inequalities for regular pencils. 90g:15019
- Huybreuck, D. (with Puystjens, R.; Van Geel, Jan) The Moore-Penrose inverse of a matrix over a semi-simple Artinian ring with respect to an involution. 90f:15006
- Johnson, C. D. *see* Zhu, Jianchao, 90g:34042
- Kaji, Ikuro *see* Kase, Satoshi; et al., 90m:93006
- Kase, Satoshi (with Ohuchi, Azuma; Kaji, Ikuro) Correction theory and algorithm for reachability matrix model. 90m:93006
- Kazimirskii, P. S. (with Mel'nik, O. M.) Solution of a problem of semiscalar equivalence of polynomial matrices with pairwise distinct characteristic roots. (Russian. English summary) 90d:15016
- Kim, Chang Bum *see* Kim, Jin Bai, 90d:06019
- Kim, Jin Bai (with Kim, Chang Bum) Nearly zero Boolean idempotent matrices. 90d:06019
- Lam, T. Y. (with Leroy, André) Vandermonde and Wronskian matrices over division rings. 90a:12009
- Leroy, André *see* Lam, T. Y., 90a:12009
- Mel'nik, O. M. *see* Kazimirskii, P. S., 90d:15016
- Noritzsch, Thomas (with Roloff, Hartmut) Lineare Gleichungssysteme über Hauptidealringen. [Linear systems of equations over principal ideal rings] 90e:13018
- Ohuchi, Azuma *see* Kase, Satoshi; et al., 90m:93006
- Puystjens, R. *see* Huybreuck, D.; et al., 90f:15006
- Roloff, Hartmut *see* Noritzsch, Thomas, 90e:13018
- de Sá, Eduardo Marques On the invariant factors of sums of integral matrices. 90e:15023
- Sánchez Valenzuela, Oscar Adolfo Matrix computations in linear superalgebra. 90g:17009
- Strauss, Nicholas Algorithm and implementation for computation of Jordan form over $A[x_1, \dots, x_m]$. 90e:15003
- Tu, Bo Xun Positive definite self-conjugate decomposition of a matrix over a positival division ring. (Chinese. English summary) 90m:15025
- Van Geel, Jan *see* Huybreuck, D.; et al., 90f:15006
- Wang, Lu Qun Generalized ranks of matrices. (Chinese. English summary) 90j:15027
- Wimmer, Harald K. The kernel of the Bezoutian of polynomial matrices. 90h:93029
- Zhu, Jianchao (with Johnson, C. D.) New results in the reduction of linear time-varying dynamical systems. 90g:34042

15A36 Matrices of integers [see also 11C20]

- Beslin, Scott (with Ligh, Steve) Greatest common divisor matrices. 90d:15015
- Cameron, Peter J. A problem on integer matrices. 90a:15020
- Laffey, T. J. Factorizations of integer matrices as products of idempotents and nilpotents. 90g:15031
- Ligh, Steve *see* Beslin, Scott, 90d:15015
- Rushanan, Joseph J. Combinatorial applications of the Smith normal form. 90m:15031
- de Sá, Eduardo Marques On the invariant factors of sums of integral matrices. 90e:15023
- Wimmer, Harald K. Root vectors and Jordan chains of integer matrices. 90e:15024

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- Balinski, M. L. (with Demange, G.) Algorithms for proportional matrices in reals and integers. 90m:90024

- Braaldi, Richard A. (with Michael, T. S.) The class of matrices of zeros, ones, and twos with prescribed row and column sums. 90b:05023
- Chernyak, A. A. *see* Chernyak, Zh. A., 90b:05024
- Chernyak, Zh. A. (with Chernyak, A. A.) Matrices with prescribed row, column and block sums. 90b:05024
- Demange, G. *see* Balinski, M. L., 90m:90024
- Deschamps, Philippe J. A note on isomorphic characterizations of the dispersion matrix in error-component models. 90b:62100
- Koecher, Max On endomorphisms of degree two. 90b:13022
- Kraft, Olaf (with Schaefer, Martin) A Gale-Ryser theorem for incidence-structures. 90d:05053
- Liebeck, Hans *see* Osborne, Anthony, 90d:11035
- Michael, T. S. *see* Braaldi, Richard A., 90b:05023
- Osborne, Anthony (with Liebeck, Hans) Orthogonal bases of \mathbb{R}^3 with integer coordinates and integer lengths. 90d:11035
- Schaefer, Martin *see* Kraft, Olaf, 90d:05053
- Silva, Fernando C. The rank of the difference of matrices with prescribed invariant factors. 90e:15013
- Thompson, Robert C. A divisibility nonrelation for the Smith invariants of a product of integral matrices. 90f:15012
- Wei, Wan Di The properties of matrices $\alpha I + \beta J$. (Chinese. English summary) 90a:05028

15A39 Linear inequalities

- Hu, Hui (with Wang, Qing) On approximate solutions of infinite systems of linear inequalities. 90f:15017
- Kozlov, V. N. On an analytic solution of a system of linear algebraic inequalities. (Russian. English summary) 90g:15032
- Wang, Qing *see* Hu, Hui, 90f:15017

Items with secondary classifications in 15A39

- Duca, Dorel I. Theorem of Motzkin's alternative for nonhomogeneous complex linear equations and inequalities. 90f:15004

15A42 Inequalities involving eigenvalues and eigenvectors

- Cao, Chong Guang Some trace inequalities for quaternionic matrices. (Chinese. English summary) 90h:15028
- Cohen, Joel E. Spectral inequalities for matrix exponentials. 90e:15025
- Das, Kiran Chandra (with Majumdar, S.) Remarks on the estimation of the eigenvalues of AB for $A > 0$, $B > 0$. 90e:15026
- Elsner, L. (with Johnson, Charles Royal) Nonnegative matrices, zero patterns, and spectral inequalities. 90g:15033
- Gao, Wei Bing *see* Shi, Zhi Cheng, 90j:15030
- Good, L. J. An inequality for the smallest singular value of a matrix product. 90a:15021
- Johnson, Charles Royal A Gersgorin-type lower bound for the smallest singular value. 90a:15022
- *see also* Elsner, L., 90g:15033
- Komarov, N. Bounds on eigenvalues of matrix products with an application to the algebraic Riccati equation. (Not in MR)
- Lewkowicz, Iechak Remarks on equality in Johnson's lower bounds for the smallest singular value of a matrix. 90j:15029
- Majumdar, S. *see* Das, Kiran Chandra, 90e:15026
- Mitrinović, Dragoslav S. (with Pečarić, Josip E.) Determinantal inequalities of Jensen's type. 90f:15016
- Pang, Ming Xian A generalization of diagonal dominance of matrices and its applications. (Chinese. English summary) 90m:15032
- Pečarić, Josip E. *see* Mitrinović, Dragoslav S., 90f:15016
- Shi, Zhi Cheng (with Gao, Wei Bing) Stability of interval parameter matrices. 90j:15030

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- Bapat, R. B. Majorization and singular values. II. 90f:15009
- Bhaya, Amit *see* Kaszkurewicz, Eugenius, 90c:39010
- Chuang, Yao T'ang Reduced conservatism of eigenvalue estimation. 90h:15015
- Dias da Silva, J. A. *see* Elsner, L.; et al., 90f:15018
- van den Driessche, P. *see* Johnson, Charles Royal, 90h:15016
- Duarte, António Leal Construction of acyclic matrices from spectral data. 90e:15007
- Elsner, L. (with Johnson, Charles Royal; Dias da Silva, J. A.) The Perron root of a weighted geometric mean of nonnegative matrices. 90f:15018
- Grubb, A. (with Sharma, C. S.) Bounds on eigenvalues of the product and the Jordan product of two positive definite operators on a finite-dimensional Hilbert space. 90e:49053
- (with Sharma, C. S.) On Strang's fifth bound for eigenvalues of the Jordan product of two selfadjoint operators on a finite-dimensional unitary space. 90e:65066
- Ha, Chung Wei An inequality for M -matrices. 90h:15012
- Hari, V. On almost diagonal square matrices with multiple singular values. (Serbo-Croatian summary) 90g:65046
- Havi, Moshe Error bounds on an approximation to the dominant eigenvector of a nonnegative matrix. 90e:15009
- Haynes, Tyler Changes in signature induced by the Lyapunov mapping $\mathcal{L}_A: X \rightarrow AX + XA^*$. 90f:15010
- Hershkovitz, Daniel A majorization relation between the height and the level characteristics. 90f:15017
- (Jiang, Chung Li) *see* Rachid, A., 90a:93094
- Johnson, Charles Royal (with van den Driessche, P.) Interpolation of D -stability and sign stability. 90f:15016
- The Robertson-Taussky inequality revisited. 90m:15011
- *see also* Elsner, L.; et al., 90f:15018
- Kaszkurewicz, Eugenius (with Bhaya, Amit) Qualitative stability of discrete-time systems. 90c:39010

- Li, Ren Cang Perturbation bounds for generalized eigenvalues. I. 90i:65066
 Marcus, Marvin (with Sandy, Markus) Bessel's inequality in tensor space. 90h:15038
 Overton, Michael L. On minimizing the maximum eigenvalue of a symmetric matrix. 90a:93060
 Rachid, A. Comments on: "Another sufficient condition for the stability of interval matrices" [Internat. J. Control 47 (1988), no. 1, 181-186; MR 89e:93072] by Chung Li Jiang. 90a:93094
 Sandy, Markus see Marcus, Marvin, 90h:15038
 Sharma, C. S. see Grubb, A., 90b:65066 and 90e:49053
 Sierksma, Gerard Multiplicities of eigenvalues. 90d:15011

15A45 Miscellaneous inequalities involving matrices

- Barrlund, Anders Perturbation bounds on the polar decomposition. 90m:15033
 Goldberg, Moshe A note on monotonic and semi-monotonic matrix functions. 90h:15029
 Hershkowitz, Daniel A majorization relation between the height and the level characteristics. 90i:15017
 Logofet, D. O. Do diagonally stable matrices without a dominating diagonal exist? 90h:15013
 Mathias, Roy An improved bound for a fundamental constant associated with a P -matrix. 90i:15018

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- Ando, Tsuyoshi Comparison of norms $\|f(A) - f(B)\|$ and $\|f(|A - B|)\|$. 90a:47021
 Balinski, M. L. (with Demange, G.) Algorithms for proportional matrices in reals and integers. 90m:90024
 Bapat, R. B. Comparing the spectral radii of two nonnegative matrices. 90e:15027
 Bhatia, Rajendra (with Holbrook, John A. R.) A softer, stronger Lidskii theorem. 90h:15034
 Demange, G. see Balinski, M. L., 90m:90024
 Furuta, Takayuki $A \geq B \geq 0$ ensures $(B^2 A^2 B)^{1/2} \geq B^2$ —solution to a conjecture on operator inequalities. 90a:47040
 Geerts, Ton All optimal controls for the singular linear-quadratic problem without stability; a new interpretation of the optimal cost. 90j:49026
 Gustafson, Karl (with Seddighin, Morteza) Antieigenvalue bounds. 90j:47041
 Ha, Chung Wei An inequality for M -matrices. 90h:15012
 Holbrook, John A. R. see Bhatia, Rajendra, 90h:15034
 Johnson, Charles Royal The Robertson-Taussky inequality revisited. 90m:15011
 Kamenetskii, V. A. The gradient method for constructing Lyapunov functions for nonlinear dynamical systems. (Russian) 90b:93075
 — A convolution method for matrix inequalities, and criteria for absolute stability of stationary control systems. 90i:93089
 Li, Chi-Kwong (with Tsing, Nam-Kiu) Distance to the convex hull of the unitary orbit with respect to unitary similarity invariant norms. 90h:15011
 Marcus, Marvin (with Sandy, Markus) Bessel's inequality in tensor space. 90h:15038
 Merikoski, Jorma Kaarlo (with Virtanen, Ari) Some notes on de Oliveira's determinantal conjecture. 90e:15014
 Pate, Thomas H. Lower bounds for permanents of Gram matrices having a rank one principal submatrix. 90a:15006
 Sandy, Markus see Marcus, Marvin, 90h:15038
 Seddighin, Morteza see Gustafson, Karl, 90j:47041
 Świętochowski, Z. On the inequality of type $A_1^{-1} + A_2^{-1} \geq 4(A_1 + A_2)^{-1}$. (Russian and Polish summaries) 90h:47049
 Thompson, Robert C. The matrix valued triangle inequality: quaternion version. 90e:15020
 Tóllis, Theodore Some matrix inequalities and applications to probabilistic inequalities. 90g:60022
 Tsing, Nam-Kiu see Li, Chi-Kwong, 90h:15011
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 Wang, Chung-Lie On development of a Ky Fan inequality of the complementary A-G type. 90h:26016

15A48 Positive matrices and their generalizations; cones of matrices

- Agler, Jim (with Helton, J. W.; McCullough, Scott; Rodman, Leiba) Positive semidefinite matrices with a given sparsity pattern. 90h:15030
 Anderson, William N., Jr. (with Morley, T. D.; Trapp, George E.) The cascade limit, the shorted operator and quadratic optimal control. (see 90k:93007)
 Bapat, R. B. Comparing the spectral radii of two nonnegative matrices. 90e:15027
 Berman, Abraham Complete positivity. 90a:15023
 Brū, Rafael (with Neumann, Michael) Nonnegative Jordan bases. 90a:15024
 Chen, Gong Ning Some properties of weakly semipositive matrices and weakly diagonally stable matrices. (Chinese) 90i:15019
 Chen, Ji Cheng (with Lai, Meng Xia) On a conjecture by Fiedler, Markham, and Neumann. 90e:15028
 Dias da Silva, J. A. see Elsner, L.; et al., 90f:15018
 Di Nola, Antonio (with Sessa, Salvatore) On the Schein rank of matrices over linear lattices. 90b:15014
 Elsner, L. (with Johnson, Charles Royal; Dias da Silva, J. A.) The Perron root of a weighted geometric mean of nonnegative matrices. 90f:15018
 Fritzsche, Bernd (with Kirstein, Bernd) A Schur type matrix extension problem. II. 90a:15025
 Gunawardena, Ananda D. (with Jain, Surender Kumar; Snyder, Larry) On the periodicity of the graph of nonnegative matrices. 90j:15031
 Guo, Zhong Criterion of positive definiteness of matrices and solution of inverse problem for system of linear equations. 90e:15029
 Hadjidimos, A. (with Neumann, Michael) A note on the SSOR convergence domain due to Neumaier and Varga. 90h:15015
 Helton, J. W. see Agler, Jim; et al., 90h:15030
 Hershkowitz, Daniel (with Schneider, Hans) On the generalized nullspace of M -matrices and Z -matrices. 90b:15016
 — (with Rothblum, Uriel; Schneider, Hans) The combinatorial structure of the generalized nullspace of a block triangular matrix. 90a:15026
 — (with Schneider, Hans) Height bases, level bases, and the equality of the height and the level characteristics of an M -matrix. 90k:15006
 Imam, Ibrahim N. (with Johnson, Charles Royal) On inverse M -matrices of the form $A = sI + B$. (Arabic summary) 90h:15031
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 Kirstein, Bernd see Fritzsche, Bernd, 90a:15025
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 Lindqvist, Bo Henry Asymptotic properties of powers of nonnegative matrices, with applications. 90e:15030
 Marcus, Marvin (with Smith, Terence R.) A note on the determinants and eigenvalues of distance matrices. 90i:15020
 Martignon, Laura ★ Matrices positivas. (Portuguese) [Positive matrices] 90h:15017
 McCullough, Scott see Agler, Jim; et al., 90h:15030
 Meenakshi, A. R. On the partial ordering of almost definite matrices. 90e:15031
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 Neumann, Michael see Brū, Rafael, 90a:15024 and Hadjidimos, A., 90h:15015
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 Tu, Bo Xun Principal positive matrices and totally principal positive matrices. I. (Chinese) 90j:15032
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- Beasley, LeRoy B. (with Pullman, Norman J.) Linear operators that strongly preserve primitivity. 90h:15004
 Berman, Abraham (with Neumann, Michael; Stern, Ronald Jay) ★ Nonnegative matrices in dynamic systems. 90j:93030
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 Buffoni, Giuseppe Nonnegative and skew-symmetric perturbations of a matrix with positive inverse. 90g:65038
 Chuang, Yao T'ang Reduced conservatism of eigenvalue estimation. 90h:15015
 Collins, Emmanuel G., Jr. see Hyland, David C., (Not in MR)
 Conroy, John M. A note on the parallel Cholesky factorization of wide banded matrices. 90e:65059
 Drobot, Vladimir (with Turner, John Christopher) Hausdorff dimension and Perron-Frobenius theory. 90a:11097
 Fritzsche, Bernd (with Kirstein, Bernd) On generalized Nehari problems. 90a:15027
 (Gao, Wei Bing) see Jiang, Chung Li, 90e:93069
 Giorgi, Giorgio (with Meriggi, Maria Rosa) On the hierarchy of some qualitative structures in the von Neumann and related models. 90i:90031
 Gowda, M. Seetharama Pseudomonotone and copositive star matrices. 90e:90222
 Grinberg, V. S. Wielandt-type estimates for primitive mappings of partially ordered sets. 90k:06007
 Hankerson, Darrel (with Peterson, Allan C.) Comparison of eigenvalues for focal point problems for n th order difference equations. 90m:39005
 Hyland, David C. (with Collins, Emmanuel G., Jr.) An M -matrix and majorant approach to robust stability and performance analysis for systems with structured uncertainty. (Not in MR)
 Jiang, Chang Jin Some inverse problems for systems of linear equations. (Chinese) 90e:15005
 Jiang, Chung Li Comments on: "A necessary and sufficient condition for the positive-definiteness of interval symmetric matrices" [Internat. J. Control 43 (1986), no. 1, 325-328; MR 87c:93048] by Zhi Cheng Shi and Wei Bing Gao. 90e:93069
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 Pečarić, Josip E. see Mitrinović, Dragoslav S., 90i:15016
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 Roth, Robert Lyle On the eigenvectors belonging to the minimum eigenvalue of an essentially nonnegative symmetric matrix with bipartite graph. 90d:95163
 (Shi, Zhi Cheng) see Jiang, Chung Li, 90e:93069
 Soh, C. B. Comments on: "Sufficient condition for the asymptotic stability of interval matrices" [Internat. J. Control 46 (1987), no. 5, 1803-1810; MR 89b:93094] by C. L. Jiang. 90f:93054
 Stern, Ronald Jay see Berman, Abraham; et al., 90j:93030
 Stuart, Jeffrey L. Matrices whose powers are completely reducible Z -matrices. 90i:15025
 — An eigenvector test for inflation matrices and ZME-matrices. 90j:15019
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 Villalón, H. Quadratic-programming criteria for copositive matrices. 90h:90133
 — Almost copositive matrices. 90m:15039

15A51 Stochastic matrices

- Ando, Tsuyoshi Majorization, doubly stochastic matrices, and comparison of eigenvalues. 90h:15034
- Bapat, R. B. (with Raghavan, T. E. S.) An extension of a theorem of Darroch and Ratcliff in loglinear models and its application to scaling multidimensional matrices. 90h:15032
- Cohn, Harry Products of stochastic matrices and applications. 90h:15033
- Hartfiel, D. J. Stochastic box limits for nonhomogeneous Markov chains. 90m:15034
- Kim, Si Joo On a conjecture of E. T. H. Wang. 90j:15033
- Raghavan, T. E. S. see Bapat, R. B., 90h:15032
- Song, Seek-Zun Minimum permanents on certain faces of the polytope of doubly stochastic matrices. 90b:15018

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- Atalla, Robert Saturated sets of probability measures and stochastic matrices. 90f:28003
- Chang, Derek K. Minimum and maximum permanents of certain doubly stochastic matrices. 90f:15008
- Foguel, S. R. Invariant vectors of a nonrecurrent Markov matrix. 90h:47053
- Fuglede, B. On the imbedding problem for stochastic and doubly stochastic matrices. 90f:60130
- Ganikhodzhaev, R. N. (with Sarymsakov, A. T.) A simple criterion for regularity of quadratic stochastic operators. (Russian) 90c:60040
- Hartfiel, D. J. Computing limits of convex sets of distribution vectors x_{A_1}, \dots, x_{A_r} . 90g:60062
- Hwang, Suk Geun On the monotonicity of the permanent. 90f:15009
- Kolodziejczyk, Waldemar New characterizations of doubly superstochastic matrices. 90k:60060
- London, David (with Minc, Henryk) On the permanent of doubly stochastic matrices with zero diagonal. 90m:15012
- Malek, Massoud A note on a permanental conjecture of M. Marcus and H. Minc. 90j:15013
- Martignon, Laura ★ Matrices positivas. (Portuguese) [Positive matrices] 90b:15017
- Minc, Henryk see London, David, 90m:15012
- Rédei, Miklós Stochastic irreducibility of spin. 90b:46122
- Sarymsakov, A. T. see Ganikhodzhaev, R. N., 90c:60040
- Seneta, E. Sensitivity to perturbation of the stationary distribution: some refinements. 90a:60122
- Zhafyarov, A. Zh. A generalization of A. N. Kolmogorov's theorem on the limit of a power sequence of square matrices. 90c:90053

15A52 Random matrices

Items with secondary classifications in 15A52

- Bai, Zhi Dong (with Yin, Yong Quan) Necessary and sufficient conditions for almost sure convergence of the largest eigenvalue of a Wigner matrix. 90a:60069
- Girko, V. L. ★ Спектральная теория случайных матриц. (Russian) [Spectral theory of random matrices] 90g:60034
- Gorodetskiĭ, M. B. On block Toeplitz matrices with analytic symbol. 90a:47069
- Kaffes, Demetrios G. (with Mathew, Thomas¹; Rao, M. Bhaskara; Subramanyam, K.) On the matrix convexity of the Moore-Penrose inverse and some applications. 90j:15010
- Kingman, J. F. C. Maxima of random quadratic forms on a simplex. 90k:92022
- Mathew, Thomas¹ see Kaffes, Demetrios G.; et al., 90j:15010
- Nests, Marcel F. Computer experimentation in applied probability. 90a:65288
- Pierre, Christophe Root sensitivity to parameter uncertainties: a statistical approach. 90h:93036
- Rao, M. Bhaskara see Kaffes, Demetrios G.; et al., 90j:15010
- Roerdink, J. B. T. M. Products of random matrices or "Why do biennials live longer than two years?". 90k:92051
- Subramanyam, K. see Kaffes, Demetrios G.; et al., 90j:15010
- Tóth, Theodore Some matrix inequalities and applications to probabilistic inequalities. 90g:60022
- Yin, Yong Quan see Bai, Zhi Dong, 90a:60069

15A54 Matrices over function rings in one or more variables

- Belyi, V. A. (with Khazanov, V. B.; Kublanovskaya, V. N.) Spectral problems for matrix pencils. Methods and algorithms. III. 90k:15007
- Cohen, Nir 2×2 monic irreducible matrix polynomials. 90m:15035
- Dampousse, Pierre The arithmetic of powers and roots in $GL_2(C)$ and $SL_2(C)$. 90j:15034
- Hayton, G. E. (with Walker, A. B.; Pugh, A. C.) Matrix pencil equivalents of a general polynomial matrix. 90g:15035
- Johnson, Charles Royal (with Rodman, Leiba) Chordal inheritance principles and positive definite completions of partial matrices over function rings. 90k:15008
- Kazimirska, P. S. (with Mel'nik, O. M.) Solution of a problem of semiscalar equivalence of polynomial matrices with pairwise distinct characteristic roots. (Russian. English summary) 90d:15016
- Khazanov, V. B. see Belyi, V. A.; et al., 90k:15007
- Kublanovskaya, V. N. see Belyi, V. A.; et al., 90k:15007
- Mel'nik, O. M. see Kazimirska, P. S., 90d:15016
- Pugh, A. C. see Hayton, G. E.; et al., 90g:15035
- Rodman, Leiba see Johnson, Charles Royal, 90k:15008
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- Shchedrik, V. P. Factorization of matrix polynomials. (Russian. English summary) 90m:15036
- Walker, A. B. see Hayton, G. E.; et al., 90g:15035
- Wimmer, Harald K. A factorization of the generalized Bezoutian of polynomial matrices. 90f:15019
- Bezoutians of polynomial matrices and their generalized inverses. 90h:15022

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- Borogovac, M. (with Langer, Heinz) A characterization of generalized zeros of negative type of matrix functions of the class $N_+^{n \times n}$. 90f:47045
- Gohberg, I. (with Kaashoek, M. A.; Lancaster, Peter) General theory of regular matrix polynomials and band Toeplitz operators. 90a:47033
- (with Kaashoek, M. A.; Ran, A. C. M.) Partial pole and zero displacement by cascade connection. 90i:93059
- Guralnick, R. Matrices and representations over rings of analytic functions and other one-dimensional rings. 90i:16025
- Kaashoek, M. A. see Gohberg, I.; et al., 90a:47033 and 90i:93059
- Lancaster, Peter see Gohberg, I.; et al., 90a:47033
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- Petríckovich, V. M. Parallel factorizations of polynomial matrices. (Russian. English summary) 90j:15025
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- Wolsson, K. Linear dependence of a function set of m variables with vanishing generalized Wronskians. 90d:15003

15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)

- Bates, Ronald G. see Hill, Richard D.; et al., 90m:15037
- Ben-Artzi, A. (with Gohberg, I.) Inertia theorems for nonstationary discrete systems and dichotomy. 90h:15032
- Cederbaum, L. S. (with Schirmer, J.; Meyer, Hans-Dieter) Block diagonalisation of Hermitian matrices. 90i:15023
- Choudhury, Dipa The Schur product theorem in the block case. 90i:15024
- Ellis, Robert Lee (with Lay, David C.; Gohberg, I.) On negative eigenvalues of selfadjoint extensions of band matrices. 90e:15034
- Fang, Li On the spectra of P - and P_0 -matrices. 90g:15036
- Freund, Roland Wilhelm (with Huckle, T.) Extension problems for H -unitary matrices and Hermitian block Toeplitz matrices. (see 90a:00025)
- Fritzsche, Bernd (with Kirstein, Bernd) On generalized Nehari problems. 90a:15027
- Gohberg, I. see Ellis, Robert Lee; et al., 90e:15034 and Ben-Artzi, A., 90h:15032
- Gover, M. J. C. A ring of Brownian matrices. 90d:15018
- Hill, Richard D. (with Bates, Ronald G.; Waters, Steven R.) On per-Hermitian matrices. 90m:15037
- Huckle, T. see Freund, Roland Wilhelm, (90a:00025)
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- Kovalenko, S. P. On induced matrices. (Russian. English summary) 90g:15037
- Lay, David C. see Ellis, Robert Lee; et al., 90e:15034
- Li, Guang Xing Inequalities on positive semidefinite Hermitian matrix. (Not in MR)
- Loewy, Raphael Linear maps that preserve an inertia class. 90k:15009
- Ma, Li Zhuang A generalization of block circulants. (Chinese. English summary) 90g:15038
- de Malafosse, Bruno see Mascart, Henri, 90e:15035
- Maroulas, J. Contractive partial realization. 90d:15019
- Mascart, Henri (with de Malafosse, Bruno) Propriétés des matrices symétriques infinies. (English summary) [Properties of infinite symmetric matrices] 90e:15035
- Meyer, Hans-Dieter see Cederbaum, L. S.; et al., 90i:15023
- Pate, Thomas H. Permanental dominance and the Soules conjecture for certain right ideals in the group algebra. 90k:15010
- Schirmer, J. see Cederbaum, L. S.; et al., 90i:15023
- Smirnov, A. I. Properties of generalized Leslie matrices and their use in the analysis of models of ecosystems. (Russian) 90e:15036
- Stolbovskaya, L. V. On a generalization of a theorem of Loewner. (Russian) 90m:15038
- Stuart, Jeffrey L. Matrices whose powers are completely reducible Z -matrices. 90i:15025
- Väliaho, H. Almost copositive matrices. 90m:15039
- Wang, Derming The polar decomposition and a matrix inequality. 90e:15037
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- Woerdeman, H. J. Minimal rank completions for block matrices. 90g:15039
- Xu, De Yu New estimates for the eigenvalues of products of positive definite Hermitian matrices. (Chinese) 90g:15040
- Yang, Yi Xin Some properties of scalar matrices. (Chinese) 90h:15033

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- Amdeberhan, Tewodros see Heinig, Georg, 90j:15007
- Ando, Tsuyoshi Majorization, doubly stochastic matrices, and comparison of eigenvalues. 90g:15034
- Baker, Janice Shields (with Hiergeist, F.; Trapp, George E.) A recursive algorithm to invert multiblock circulant matrices. 90f:65043
- Ben-Artzi, A. (with Gohberg, I.) Fredholm properties of band matrices and dichotomy. 90h:47066
- Blank, S. J. (with Krikorian, Nishan; Spring, David) A geometrically inspired proof of the singular value decomposition. 90g:15017
- Böttcher, Albrecht Asymptotic formulas for rationally generated block Toeplitz determinants. 90i:15005
- Ciliz, M. Kemal (with Krishna, Hari) Split Levinson algorithm for Toeplitz matrices with singular sub-matrices. 90c:65058
- Collins, Emmanuel G., Jr. see Hyland, David C., 90a:93010 and 90i:93009
- Datta, Lokes (with Morgera, S. D.) On the reducibility of centrosymmetric matrices—applications in engineering problems. 90g:15020

- Davidson, Kenneth R. Finite dimension problems in operator theory. 90m:47035
- Dym, H. Hermitian block Toeplitz matrices, orthogonal polynomials, reproducing kernel Pontryagin spaces, interpolation and extension. (see 90k:41001)
- Fadali, M. S. (with Gnanasekaran, R.) Normal matrices and their stability properties: application to 2-D system stabilization. 90e:93073
- Freund, Roland Wilhelm (with Huckle, T.) On H -contractions and the extension problem for Hermitian block Toeplitz matrices. 90f:15010
- Gabriel, Richard Zur besten normalen Approximation komplexer Matrizen in der Euklidischen norm. [On the best normal approximation of complex matrices in the Euclidean norm] 90f:41041
- Gladwell, G. M. L. (with Willms, N. B.) The reconstruction of a tridiagonal system from its frequency response at an interior point. 90f:70028
- Gnanasekaran, R. see Fadali, M. S., 90e:93073
- Gohberg, I. (with Lerer, L.) Matrix generalizations of M. G. Krein theorems on orthogonal polynomials. (see 90k:41001)
- see also Ben-Artzi, A., 90h:47066
- Good, I. J. A simple generalization of analytic function theory. 90a:30136
- Gover, M. J. C. The determination of companion matrices characterizing Toeplitz and r -Toeplitz matrices. 90d:15012
- Gregson, K. D. (with Young, Nicholas J.) Finite representations of block Hankel operators and balanced realizations. 90m:47043
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- Heinig, Georg (with Amdeberhan, Tewodros) On the inverses of Hankel and Toeplitz mosaic matrices. 90j:15007
- Helms, U. (with Hinrichsen, D.; Manthey, W.) A cell decomposition of the space of real Hankel matrices of rank $\leq n$ and some applications. 90m:93039
- Helton, J. W. (with Pierce, S.; Rodman, Leiba) The ranks of extremal positive semidefinite matrices with given sparsity pattern. 90j:05094
- Heyfron, Peter Immanent dominance orderings for hook partitions. 90f:15067
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- Kwong, Man Kam Some results on matrix monotone functions. 90e:47016
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- Lerer, L. see Gohberg, I., (90k:41001)
- Li, Chi-Kwong (with Tsing, Nam-Kiu) G -invariant Hermitian forms and G -invariant elliptical norms. 90j:15036
- Lombardi, G. (with Rebaudo, R.) Eigenvalues and eigenvectors of a special class of band matrices. (Italian summary) 90j:15017
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- Pate, Thomas H. Lower bounds for permanents of Gram matrices having a rank one principal submatrix. 90a:15006
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- Power, Stephen see Paulsen, Vern; et al., 90j:46051
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- Regalia, Phillip A. (with Mitra, Sanjit K.) Kronecker products, unitary matrices and signal processing applications. 90m:15024
- Rodman, Leiba see Helton, J. W.; et al., 90j:05094
- Smith, R. R. see Paulsen, Vern; et al., 90j:46051
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- Amir-Moëz, Ali R. (with Byerly, Robert E.) Spheres of transformations. (Serbo-Croatian summary) (Not in MR)
- Bhatia, Rajendra (with Holbrook, John A. R.) A softer, stronger Lidskii theorem. 90h:15034
- Bulgakov, A. Ya. An estimate of the Green matrix, continuity of the dichotomy parameter. 90h:15035
- Busluev, A. P. Vectors with continuous sign and nonlinear spectral analysis of matrices. (Russian) 90m:15040
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- Holbrook, John A. R. see Bhatia, Rajendra, 90h:15034
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- (with Tsing, Nam-Kiu) Linear operators preserving the decomposable numerical radius. 90j:15041
- (with Tsing, Nam-Kiu) Duality between some linear preservers problems: the invariance of the C -numerical range, the C -numerical radius and certain matrix sets. 90m:15041
- (with Tsing, Nam-Kiu) Norms that are invariant under unitary similarities and the C -numerical radii. 90h:15036
- (with Tsing, Nam-Kiu) Distance to the convex hull of the unitary orbit with respect to unitary similarity invariant norms. 90k:15011
- (with Sung, Chen Han; Tsing, Nam-Kiu) c -convex matrices: characterizations, inclusion relations and normality. 90m:15043
- (with Tsing, Nam-Kiu) G -invariant Hermitian forms and G -invariant elliptical norms. 90j:15036
- Mlynski, M. Logarithmic minimality. (Italian summary) 90d:15020
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- Anderson, William N., Jr. (with Trapp, George E.) The extreme points of a set of positive semidefinite operators. 90a:47108
- Ando, Tsuyoshi Comparison of norms $\|f(A) - f(B)\|$ and $\|f(|A - B|)\|$. 90a:47021
- Belitskii, G. R. (with Lyubich, Yu. I.) ★ Matrix norms and their applications. 90g:15003
- Chō, Muneo (with Yamaguchi, Hiroyasu) A simple example of a normal operator T on a Banach space such that $r(T) < \|T\|$. 90d:47024
- Choudhury, Dipa The Schur product theorem in the block case. 90f:15024
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- Goldberg, Moshe A note on monotonic and semi-monotonic matrix functions. 90h:15029
- Hinrichsen, D. (with Motscha, Matthias) Optimization problems in the robustness analysis of linear state space systems. 90c:93035
- Hu, Shu An On Marcus-Wang's numerical range. 90j:15011
- (Jacob, Andrei) see Belitskii, G. R., 90g:15003
- Jódar, Lucas (with Abou-Kandil, H.) Kronecker products and coupled matrix Riccati differential systems. 90f:93022
- (with Navarro, E.) Co-square roots of matrices and their application to boundary value differential matrix problems. 90e:15014
- Johnson, Charles Royal (with Rodman, Leiba) Chordal inheritance principles and positive definite completions of partial matrices over function rings. 90k:15008
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- Lunin, A. A. On operator norms of submatrices. (Russian) 90g:47012
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- Tam, Tin Yau On the numerical range of an induced power. 90j:15012
- Tits, André L. see Wang, Jia-Chang; et al., (90k:93007)
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- Wang, Jia-Chang (with Fan, Michael K. H.; Tits, André L.) Structured singular value and geometry of the m -form numerical range. (see 90k:93007)
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15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]

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- Datta, B. N. see Fuhrmann, P. A., 90h:15037
- Fuhrmann, P. A. (with Datta, B. N.) On Bezoutians, Vandermonde matrices, and the Liénard-Chipart stability criterion. 90h:15037
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 — (with Tucker, R. W.) ★ An introduction to spinors and geometry with applications in physics. 90c:53039
 — (with Tucker, R. W.) High spin forms. 90j:53017
 — (with Tucker, R. W.) Representing spinors with differential forms. 90f:53030
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 Chines, F. J. A Clifford algebra approach to general relativity. 90i:83004
 Crumeyrolle, A. The primitive idempotents of the Clifford algebras and the amorphic spinor fibre bundles. 90g:53022
 Dehevels, René Une application des algèbres de Clifford. [An application of Clifford algebras] 90m:53029
 — Décomposition de certains produits tensoriels de représentations de $\text{Spin}(n)$. (English summary) [Decomposition of some tensor products of representations of $\text{Spin}(n)$] 90m:22033
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 Borovik, A. V. Automorphism groups of polylinear forms and mappings. 90k:20063
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 Canfield, E. Rodney (with Williamson, S. Gill) A combinatorial study of straightening bases. 90i:20011
 Cohen, Joel E. Spectral inequalities for matrix exponentials. 90e:15025
 Feizulaev, R. B. (with Burtman, M. I.) Densely embedded θ -ideals of the Menger algebra of multilinear functions. (Russian. English and Azerbaijani summaries) 90m:08005
 Helmke, U. Rational functions and Bezout forms: a functorial correspondence. 90i:15006
 Howe, Roger E. The classical groups and invariants of binary forms. 90e:22022
 Jinadasa, K. G. see Tracy, D. S., 90m:26019
 Jódar, Lucas (with Abou-Kandil, H.) A resolution method for Riccati differential systems coupled in their quadratic terms. 90a:65159
 — (with Abou-Kandil, H.) Kronecker products and coupled matrix Riccati differential systems. 90i:93022
 Kanazaki, Teruo (with Watanabe, Yutaka) Determinants of r -fold symmetric multilinear forms. 90j:11052
 Lascoux, Alain (with Schützenberger, M.-P.) Fonctorialité des polynômes de Schubert. (English summary) [Functoriality of Schubert polynomials] 90i:16003
 Pengilly, C. J. see Thomas, V. O., (90d:51003)
 Prószyński, Andrzej Equationally definable functors and polynomial mappings. 90i:13007
 Schützenberger, M.-P. see Lascoux, Alain, 90i:16003
 Thomas, V. O. (with Pengilly, C. J.) Computational descriptive geometry and the exterior calculus. (see 90d:51003)
 Topencharov, Vladimir V. Composition générale de matrices multidimensionnelles. [General composition of multidimensional matrices] 90e:15044
 Tracy, D. S. (with Jinadasa, K. G.) Patterned matrix derivatives. (French summary) 90m:26019
 Watanabe, Yutaka see Kanazaki, Teruo, 90j:11052
 Williamson, S. Gill see Canfield, E. Rodney, 90i:20011

15A72 Vector and tensor algebra, theory of invariants

- Abeasis, Silvana (with Pittaluga, Marilena) On a minimal set of generators for the invariants of 3×3 matrices. 90d:15021
 (Billuad, J.-R.) see Dixmier, Jacques, 90m:15047
 Bonetti, F. (with Senato, Domenico; Venezia, A.) The Robinson-Schensted correspondence for the fourfold algebra. (Italian. English summary) 90b:15025
 Brenken, Berndt Classification of skew symmetric matrices. 90d:15022
 Dixmier, Jacques Quelques aspects de la théorie des invariants. [Some aspects of invariant theory] 90m:15047
 Kozlov, V. A. Tensors of fifth valency that are invariant with respect to the adjoint representation of Lie algebras of type A_1, A_2 . (Russian) (see 90m:00019)
 Pittaluga, Marilena see Abeasis, Silvana, 90d:15021
 Rota, Gian-Carlo (with Stein, Joel A.) Standard basis in supersymplectic algebras. 90g:15044

- Senato, Domenico *see* Bonetti, F.; et al., 90b:15025
 (Stanton, Dennis) *see* Invariant theory and tableaux, 90b:15040
 Stein, Joel A. *see* Rota, Gian-Carlo, 90g:15044
 Venezia, A. *see* Bonetti, F.; et al., 90b:15025

Items listed otherwise than by author

Invariant theory and tableaux ★ Invariant theory and tableaux. 90b:15040

Minneapolis, MN ★ Invariant theory and tableaux. 90b:15040

Workshop:

Invariant Theory and Tableaux ★ Invariant theory and tableaux. 90b:15040

Items with secondary classifications in 15A72

- Andreev, I. V. (with Shekperov, B. O.) Gluonic invariants. 90d:81128
 — Invariant gluonic tensors of rank five. 90c:81265
 Anick, David J. On the homogeneous invariants of a tensor algebra. 90i:55033
 Aslaksen, Helmer Laws of trigonometry on $SU(3)$. 90d:53047
 Ch'en, Yung Ch'iu *see* Chu, Hua; et al., 90b:20040
 Chu, Hua (with Kang, Ming Chang; Ch'en, Yung Ch'iu) The invariants of projective linear group actions. 90b:20040
 Dixmier, Jacques (with Lazard, D.) Minimum number of fundamental invariants for the binary form of degree 7. 90d:11046
 Eisenbud, David (with Saltman, David) Rank varieties of matrices. 90b:14065
 Endo, Shiro On rings of invariants of finite linear groups. 90f:13006
 (Enta, Yoichi) *see* Orlik, Peter, 90b:32028
 Gähler, Siegfried (with Żekanowski, Zbigniew) Remarks on tensors and families of projections. 90m:15045
 Goodman, Roe (with Wallach, Nolan R.) Higher-order Sugawara operators for affine Lie algebras. 90e:17030
 Guzmán, Fernando Two results on the path algebra of a directed graph. 90e:16042
 Howe, Roger E. Remarks on classical invariant theory. 90b:22015a
 — Erratum to: "Remarks on classical invariant theory". 90b:22015b
 Kang, Ming Chang *see* Chu, Hua; et al., 90b:20040
 Kempf, George R. Equations of isotropy. 90j:14067
 Lazard, D. *see* Dixmier, Jacques, 90d:11046
 Le Bruyn, Lieven (with Van Oystaeyen, F.) ★ Brauer groups of fields. 90j:12011
 Olver, Peter J. (with Shakiban, Chetrad) Graph theory and classical invariant theory. 90g:05093
 Orlik, Peter Basic derivations for unitary reflection groups. 90b:32028
 Regev, Amital A combinatorial proof for an identity of Procesi of S_n characters. 90a:20026
 Reiner, Victor Free modules of relative invariants of finite groups. 90k:20018
 Richardson, R. W. Normality of G -stable subvarieties of a semisimple Lie algebra. 90d:14052
 Richman, David R. The fundamental theorems of vector invariants. 90d:20017
 Saltman, David *see* Eisenbud, David, 90b:14065
 Shakiban, Chetrad *see* Olver, Peter J., 90g:05093
 Shekperov, B. O. *see* Andreev, I. V., 90d:81128
 Strichartz, Robert S. Linear algebra of curvature tensors and their covariant derivatives. 90c:53048
 Tan, Lin An algorithm for explicit generators of the invariants of the basic G_2 -actions. 90j:13018
 Teranishi, Yasuo The Hilbert series of rings of matrix concomitants. 90a:16017
 (Teraso, Hiroaki) *see* Orlik, Peter, 90b:32028
 Van Oystaeyen, F. *see* Le Bruyn, Lieven, 90j:12011
 Wallach, Nolan R. *see* Goodman, Roe, 90e:17030
 Xiong, Zhu Hua (with Zheng, Quan Shui) Canonical representations and degree of freedom formulae of orthogonal tensors in n -dimensional Euclidean space. 90g:53021
 Yu, Dong Wun Stability functions of the partly-linearized Runge-Kutta method. 90c:65102
 Żekanowski, Zbigniew *see* Gähler, Siegfried, 90m:15045
 Zheng, Quan Shui *see* Xiong, Zhu Hua, 90g:53021

15A75 Exterior algebra, Grassmann algebras

- Arraigín, Guillermo Applications of exterior algebra to geometry. (Spanish) 90b:15041
 Regev, Amital Homomorphisms for tensor products of Grassmann algebras. 90m:15048
 Revoy, Philippe Formes trilineaires alternées de rang 7. (English summary) [Alternating trilinear forms of rank 7] 90e:15010
 Zhu, Zhong Nan Some equivalent conditions for decomposable tensors in Grassmann spaces. (Chinese) 90b:15026

Items with secondary classifications in 15A75

- Nance, Dana A class of weakened special Lagrangian calibrations. 90g:49032
 Rota, Gian-Carlo (with Stein, Joel A.) Standard basis in supersymplectic algebras. 90g:15044
 Stein, Joel A. *see* Rota, Gian-Carlo, 90g:15044
 Sturmleis, Bernd (with White, Neil) Gröbner bases and invariant theory. 90g:13003
 Susperregui Lesaca, Julian Fitting invariants for modules over anticommutative graded rings. 90b:16006
 White, Neil *see* Sturmleis, Bernd, 90g:13003

15A78 Other algebras built from modules

Items with secondary classifications in 15A78

- Gurevich, D. I. Hecke symmetries and quantum determinants. 90c:17018

15A90 Applications to physics

Items with secondary classifications in 15A90

- Datta, Lokesh (with Morgera, S. D.) On the reducibility of centrosymmetric matrices—applications in engineering problems. 90g:15020

- Morgera, S. D. *see* Datta, Lokesh, 90g:15020

15A99 Miscellaneous topics

- Abu Osman, M. T. On t -fuzzy subfield and t -fuzzy vector subspaces. 90j:15038
 Baartmans, Alphonse *see* Kim, Jin Bai, 90b:15027 and 90g:15045
 Bekker, Paul A. The positive semidefiniteness of partitioned matrices. 90d:15023
 Blokhuis, A. (with Wilbrink, H. A.; Teumer, Gunter) Unit vectors with nonnegative inner products and Kruskal's conjecture. 90e:15040
 Cel, Jarosław Some new theorems on the matrices that arise in the analysis of networks. (Polish summary) 90b:15042
 Fang, Hao Jian (with Huang, Zhi Qiang) Regular fuzzy matrices. II. (Chinese. English summary) 90m:15049
 Franklin, Joel (with Lorenz, Jens) On the scaling of multidimensional matrices. 90e:15041
 Hu, Bao Qing Generalized fuzzy inverse matrices under the sup- T composition. (Chinese) 90e:15023
 Huang, Zhi Qiang *see* Fang, Hao Jian, 90m:15049
 Kalogeropoulos, G. *see* Karcnias, N., 90b:15043
 Karcnias, N. (with Kalogeropoulos, G.) Projective equivalence of homogeneous binary polynomials. 90b:15043
 Kim, Jin Bai (with Baartmans, Alphonse) A determinant theorem for fuzzy matrices. 90b:15027
 — (with Baartmans, Alphonse) On n -dimensional matrix groups. 90g:15045
 Kobayashi, Yaji (with Nagamachi, S.) Eigenvalues and characteristic functions of supermatrices. (see 90c:20002)
 Lorenz, Jens *see* Franklin, Joel, 90e:15041
 Nagamachi, S. *see* Kobayashi, Yaji, (90c:20002)
 Nunemacher, Jeffrey Which real matrices have real logarithms? 90f:15024
 Rothblum, Uriel (with Schneider, Hans) Scalings of matrices which have prespecified row sums and column sums via optimization. 90e:15042
 — Generalized scalings satisfying linear equations. 90e:15043
 Rushanan, Joseph J. On the Vandermonde matrix. 90j:15039
 Schneider, Hans *see* Rothblum, Uriel, 90e:15042
 Teumer, Gunter *see* Blokhuis, A.; et al., 90e:15040
 Topchenarov, Vladimir V. Composition générale de matrices multidimensionnelles. [General composition of multidimensional matrices] 90e:15044
 Uteshev, A. Yu. Necessary and sufficient conditions for positive-definiteness of homogeneous forms. (Russian) (see 90k:00019)
 Wilbrink, H. A. *see* Blokhuis, A.; et al., 90e:15040
 Zhang, Ke Min A note on the sequence of powers of a nonnegative matrix. (Chinese. English summary) 90f:15025
 Zhang, Xiao Hong An equivalent definition of linear spaces. (Chinese) (Not in MR)

Items with secondary classifications in 15A99

- Bapat, R. B. (with Raghavan, T. E. S.) An extension of a theorem of Darroch and Ratcliff in loglinear models and its application to scaling multidimensional matrices. 90e:15032
 Berens, H. (with Finzel, M.) A continuous selection of the metric projection in matrix spaces. 90k:41040
 Bisiacco, M. (with Fornasini, E.; Marchesini, Giovanni) 2D systems feedback compensation: an approach based on commutative linear transformations. 90g:93019
 Butkovič, Peter (with Plávka, Ján) On the dependence of the maximum cycle mean of a matrix on permutations of the rows and columns. 90k:05085
 Calogero, F. A remarkable matrix. 90c:58058
 Datta, B. N. *see* Fuhrmann, P. A., 90b:15037
 Deresevskii, V. P. Quasilinear matrix differential equations. 90g:34005
 — Quasilinear matrix differential equations. (Russian. English summary) 90d:34027
 Finzel, M. *see* Berens, H., 90k:41040
 Fornasini, E. *see* Bisiacco, M.; et al., 90g:93019
 Fuhrmann, P. A. (with Datta, B. N.) On Bezoutians, Vandermonde matrices, and the Liénard-Chipart stability criterion. 90f:15037
 Gerards, A. M. H. A short proof of Tutte's characterization of totally unimodular matrices. 90b:05033
 Gracia, Juan-M. (with de Hoyos, Inmaculada; Zaballa, Ion) Perturbation of linear control systems. 90g:49030
 Hayton, G. E. (with Walker, A. B.; Pugh, A. C.) On a transformation for general polynomial matrices with applications. 90m:93036
 — (with Walker, A. B.; Pugh, A. C.) Matrix pencil equivalents of a general polynomial matrix. 90g:15035
 de Hoyos, Inmaculada *see* Gracia, Juan-M.; et al., 90g:49030
 Huang, Gao Tai On the fourth conjecture on Hadamard matrices. (Chinese) 90d:05052
 Ioullidis, Stavros (with Mittas, Jean D.) Sur certaines notions préliminaires de l'hyperalgèbre linéaire. Introduction de l'hypergroupe polysymétrique. (Greek summary) [Some preliminary notions of linear hyperalgebra. Introduction to the polysymmetric hypergroup] 90e:16071
 Jinadasa, K. G. *see* Tracy, D. S., 90m:62148
 Kass, Seymour Spaces of closest fit. 90f:51018
 Kim, Ki Hang (with Roush, Fred) Decidability of shift equivalence. 90g:54033
 Kovalenko, S. P. On induced matrices. (Russian. English summary) 90g:15037
 Lam, T. Y. (with Leroy, André) Vandermonde and Wronskian matrices over division rings. 90f:16005
 Leroy, André *see* Lam, T. Y., 90f:16005
 Lovet, Juan (with Sendra, Juan R.) Hankel matrices and polynomials. 90i:12001
 Longstaff, W. E. Nonreflexive realizations of nondistributive subspace lattices. 90g:47008
 Lovász, László (with Vesztegombi, K.) Extremal problems for discrepancy. 90f:11066
 de Malafosse, Bruno *see* Mascart, Henri, 90b:15008 and 90b:15009
 Marchesini, Giovanni *see* Bisiacco, M.; et al., 90g:93019
 Mascart, Henri (with de Malafosse, Bruno) Systèmes linéaires infinis associés à des séries entières. (English summary) [Infinite linear systems associated with power series] 90b:15008

- (with de Malafosse, Bruno) Caractérisation des espaces images d'une classe de systèmes linéaires infinis. (English summary) [Characterization of the image spaces of a class of infinite linear systems] 90b:15009
- McCallough, Scott 2-chordal graphs. 90m:05086
- Mittas, Jean D. see Ioualidis, Stavros, 90e:16071
- Murota, Kazuo On the irreducibility of layered mixed matrices. 90g:05131
- Muyassarov, A. see Soleev, A., 90j:12005
- Piátka, Ján see Butkovič, Peter, 90k:05085
- Powers, David L. Semiregular graphs and their algebra. 90g:05132
- Pugh, A. C. see Hayton, G. E.; et al., 90g:15035 and 90m:93036
- Raghavan, T. E. S. see Bapat, R. B., 90e:15032
- Roush, Fred see Kim, Ki Hang, 90g:54033
- Schneider, Michael H. Matrix scaling, entropy minimization, and conjugate duality. I. Existence conditions. 90f:90110
- Sendra, Juan R. see Llovet, Juan, 90i:12001
- Shaked, U. The explicit structure of inner matrices and its application in H^∞ -optimization. (Not in MR)
- Soleev, A. (with Muyassarov, A.) Reduction of systems of nonlinear algebraic equations to block-triangular form. (Russian) 90i:12005
- Stern, August ★ Matrix logic. 90b:03037
- Sun, You Xian see Wang, Qing Guo; et al., 90d:93032
- Tracy, D. S. (with Jinadasa, K. G.) Partitioned Kronecker products of matrices and applications. (French summary) 90m:62148
- Trajković, Ljiljana (with Willson, Alan N., Jr.) Replacing a transistor with a compound transistor. 90d:94012
- Vesztegombi, K. see Lovász, László, 90f:11066
- Walker, A. B. see Hayton, G. E.; et al., 90g:15035 and 90m:93036
- Wang, Qing Guo (with Sun, You Xian; Zhou, Chun Hui) A new algorithm for constructing internal skew prime polynomial matrices. (Chinese summary) 90d:93032
- Wei, Wan Di (with Yang, Ben Fu) The properties of matrices $\alpha I + \beta J$ and some related problems. 90c:15008
- Willson, Alan N., Jr. see Trajković, Ljiljana, 90d:94012
- Yang, Ben Fu see Wei, Wan Di, 90c:15008
- Zaballa, Ion see Gracia, Juan-M.; et al., 90g:49030
- Zhafayrov, A. Zh. Asymptotic properties of optimal trajectories of discrete models in economics and demography. 90b:90041
- Zhao, Shuang Suo Note on the properties of a class of partitioned matrices. (Chinese. English summary) 90b:65089
- Zhou, Chun Hui see Wang, Qing Guo; et al., 90d:93032

16-XX Associative rings and algebras {For the commutative case, see 13-XX.}

- Chen, Hui see Gao, Zhen Lin, (Not in MR)
- Gao, Zhen Lin (with Chen, Hui) Her-rings and Herstein's conjecture. (Chinese. English summary) 90b:16001

16-01 Elementary exposition; textbooks

- Kantor, I. L. (with Solodovnikov, A. S.) ★ Hypercomplex numbers. 90b:16001 (Shenitzer, A.) see Kantor, I. L., 90b:16001
- Solodovnikov, A. S. see Kantor, I. L., 90b:16001
- Wisbauer, Robert ★ Grundlagen der Modul- und Ringtheorie. (German) [Foundations of module and ring theory] 90b:16001

Items with secondary classifications in 16-01

- Barton, David M. ★ Abstract algebra. 90m:00004 (Cauchy, Augustin) see Barton, David M., 90m:00004
- (Cayley, Arthur) see Barton, David M., 90m:00004
- (Galois, Évariste) see Barton, David M., 90m:00004
- Jacobson, Nathan ★ Basic algebra. II. 90m:00007
- Nagao, Hiroshi ★ Daisugaku. (Japanese) [Algebra] 90b:00001 (Noether, Emmy) see Barton, David M., 90m:00004
- (Reid, Miles) see Shafarevich, I. R., 90k:00010
- Shafarevich, I. R. ★ Notăiile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] 90k:00009
- ★ Algebra. I. 90k:00010
- (Spircu, T.) see Shafarevich, I. R., 90k:00009

16-02 Advanced exposition (research surveys, monographs, etc.)

- Curtis, Charles W. (with Reiner, Irving) ★ Representation theory of finite groups and associative algebras. 90g:16001
- Passman, D. S. ★ Infinite crossed products. 90g:16002
- Reiner, Irving see Curtis, Charles W., 90g:16001
- Van Oystaeyen, F. Some problems on associative rings. (see 90m:16001)

16-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 16-04

- Gateva-Ivanova, Tatiana (with Latyshev, V. N.) On recognisable properties of associative algebras. 90f:68090

- Latyshev, V. N. see Gateva-Ivanova, Tatiana, 90f:68090
- Mora, T. Gröbner bases in noncommutative algebras. 90k:68082
- Takayama, Nobuki Gröbner basis and the problem of contiguous relations. 90d:12005

16-06 Proceedings, conferences, etc.

- (Amitsur, S. A.) see Ring theory 1989, 90b:16001
- (Gardner, B. J.) see Rings, modules and radicals, 90b:16002
- (Kyuno, Shoji) see Radical theory, 90a:16001
- (Le Bruyn, Lieven) see Perspectives in ring theory, 90m:16001
- (Malliavin-Brameret, Marie-Paule) see Seminar: Dubreil-Malliavin Algebra, 90b:16003
- (Rowen, Louis Halle) see Ring theory 1989, 90b:16001
- (Sugano, Kozo) see Proceedings: Symposium on Ring Theory, 90k:16001
- (Van Oystaeyen, F.) see Perspectives in ring theory, 90m:16001

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- Antwerp ★ Perspectives in ring theory. 90m:16001

Conference:

- Radicals—Theory and Application ★ Radical theory. 90a:16001
- Rings, Modules and Radicals ★ Rings, modules and radicals. 90b:16002
- Hobart ★ Rings, modules and radicals. 90b:16002
- Jerusalem ★ Ring theory 1989. 90b:16001
- Lecture Notes in Mathematics ★ Séminaire d'Algèbre Paul Dubreil et Marie-Paul Malliavin, 39ème Année. [Paul Dubreil and Marie-Paule Malliavin Algebra Seminar, 39th Year] 90b:16003

NATO Advanced Research Workshop:

- Perspectives in Ring Theory ★ Perspectives in ring theory. 90m:16001
- Paris ★ Séminaire d'Algèbre Paul Dubreil et Marie-Paul Malliavin, 39ème Année. [Paul Dubreil and Marie-Paule Malliavin Algebra Seminar, 39th Year] 90b:16003
- Perspectives in ring theory ★ Perspectives in ring theory. 90m:16001

Proceedings:

- Symposium on Ring Theory ★ Proceedings of the 22nd Symposium on Ring Theory. 90k:16001

Radical theory ★ Radical theory. 90a:16001

Ramat Gan ★ Ring theory 1989. 90b:16001

Ring theory 1989 ★ Ring theory 1989. 90b:16001

Rings, modules and radicals ★ Rings, modules and radicals. 90b:16002

Sapporo ★ Proceedings of the 22nd Symposium on Ring Theory. 90k:16001

Seminar:

- Dubreil-Malliavin Algebra ★ Séminaire d'Algèbre Paul Dubreil et Marie-Paul Malliavin, 39ème Année. [Paul Dubreil and Marie-Paule Malliavin Algebra Seminar, 39th Year] 90b:16003

Sendai ★ Radical theory. 90a:16001

Symposium:

- Ring Theory ★ Ring theory 1989. 90b:16001
- ★ Proceedings of the 22nd Symposium on Ring Theory. 90k:16001

Workshop:

- Division Algebra ★ Ring theory 1989. 90b:16001

Items with secondary classifications in 16-06

- (Berman, S. D.) see Representation theory, group rings, and coding theory, 90a:00012
- (Isaacs, N. J. A.) see Representation theory, group rings, and coding theory, 90a:00012
- (Lichtman, Alexander L.) see Representation theory, group rings, and coding theory, 90a:00012
- (Passman, D. S.) see Representation theory, group rings, and coding theory, 90a:00012
- (Sehgal, Sudarshan K.) see Representation theory, group rings, and coding theory, 90a:00012
- (Sloane, N. J. A.) see Representation theory, group rings, and coding theory, 90a:00012
- (Zassenhaus, H.) see Representation theory, group rings, and coding theory, 90a:00012

Items listed otherwise than by author

- Contemporary Mathematics ★ Representation theory, group rings, and coding theory, 90a:00012

- Representation theory, group rings, and coding theory ★ Representation theory, group rings, and coding theory. 90a:00012

16A02 Integral domains, unique factorization domains (noncommutative)

- Jordan, D. A. Unique factorisation of normal elements in noncommutative rings. 90e:16002

Items with secondary classifications in 16A02

- Chatters, A. W. Representation of tiled matrix rings as full matrix rings. 90f:16020

16A03 Graded algebras, rings and modules

- Albu, Toma (with Năstăsescu, Constantin) Infinite group-graded rings, rings of endomorphisms, and localization. 90i:16001
- Björk, Jan-Erik The Auslander condition on Noetherian rings. 90m:16002
- Coquereaux, R. (with Kastler, Daniel) Remarks on the differential envelopes of associative algebras. 90g:16003
- Divinsky, N. Δ-grings. 90f:16001
- Ekström, Eva Kristina The Auslander condition on graded and filtered Noetherian rings. 90m:16003
- El-Mahdy, S. S. Note on graded endomorphism rings of graded regular modules. (Arabic summary) 90b:16002
- Howe, Roger E. Asymptotics of dimensions of invariants for finite groups. 90d:16001
- Jespers, Eric Graded rings and Jacobson rings. 90g:16004
- Simple abelian-group graded rings. (Italian summary) 90e:16003
- (with Wauters, P.) Graded rings and Krull orders. 90a:16002

- Kastler, Daniel *see* Coquereaux, R. 90b:16003
- Le Bruyn, Lieven (with Van den Bergh, Michel; Van Oystaeyen, F.) ★ Graded orders. 90h:16004
- Li, Hui Shi (with Van Oystaeyen, F.) Zariskian filtrations. 90m:16004
- Lia, Shao Xue The structure of Artinian graded rings. (Chinese. English summary) 90h:16002
- Two results on smash products. (Chinese) (Not in MR)
- Marubayashi, Hidetoshi A note on divisorially graded rings by polycyclic-by-finite groups. 90b:16002
- McConnell, John Coulter (with Stafford, J. T.) Gelfand-Kirillov dimension and associated graded modules. 90b:16002
- Năstăsescu, Constantin Some constructions over graded rings: applications. 90b:16004
- (with Van den Bergh, Michel; Van Oystaeyen, F.) Separable functors applied to graded rings. 90b:16001
- *see also* Albu, Toma, 90b:16001
- Parkash Sharma, Ram *see* Parvathi, M., 90b:16003
- Parvathi, M. (with Parkash Sharma, Ram) Prime kernel functors of group graded rings and smash products. 90b:16003
- Saorin Castaño, M. λ -dimension of filtered rings. 90b:16005
- Stafford, J. T. *see* McConnell, John Coulter, 90b:16002
- Susperregui Lesaca, Julian Fitting invariants for modules over anticommutative graded rings. 90b:16006
- Van den Bergh, Michel *see* Le Bruyn, Lieven; et al., 90b:16004 and Năstăsescu, Constantin; et al., 90b:16001
- Van Oystaeyen, F. *see* Le Bruyn, Lieven; et al., 90b:16004; Năstăsescu, Constantin; et al., 90b:16001 and Li, Hui Shi, 90m:16004
- Wauters, P. *see* Jespers, Eric, 90a:16002
- Zhou, Bo Rong A note on Morita context functors. 90j:16002
- Zipfles, Dieter Abelianizing the divided powers algebra of an algebra. 90j:16003

Items with secondary classifications in 16A03

- Auslander, Maurice (with Reiten, Idun) Cohen-Macaulay modules for graded Cohen-Macaulay rings and their completions. 90g:13014
- Bass, Hyman Differential structure of étale extensions of polynomial algebras. 90m:12009
- Beattie, Margaret Inner gradings and Galois extensions with normal basis. 90c:16002
- Caenepeel, S. (with Van Oystaeyen, F.) ★ Brauer groups and the cohomology of graded rings. 90c:13002
- Cameron, Peter J. Some sequences of integers. 90i:05011
- Dade, Everett C. Clifford theory and induction from subgroups. 90f:20020
- Decruyenaere, Fabien (with Jespers, Eric) Dedekind domains and graded rings. 90m:13019
- Farkas, Daniel R. (with Linnell, P. A.) Zero divisors in group rings: something old, something new. 90b:16011
- Gataeva-Ivanova, Tatiana Global dimension of associative algebras. 90b:16032
- Gräbe, Hans-Gert Homologies von Streckungsringen. [Homology of rings with straightening law] 90b:13016
- Grigorchuk, R. I. On the Hilbert-Poincaré series of graded algebras that are associated with groups. 90j:20063
- Hibi, Takayuki (with Narushima, Hiroshi; Tsuchiya, Morimasa; Watanabe, Keiichi) A graph-theoretical characterization of the order complexes on the 2-sphere. 90b:06004
- Jespers, Eric *see* Decruyenaere, Fabien, 90m:13019
- Linnell, P. A. *see* Farkas, Daniel R., 90b:16011
- Narushima, Hiroshi (with Tsuchiya, Morimasa; Watanabe, Keiichi) The order complexes on the 2-sphere. 90b:06003
- *see also* Hibi, Takayuki; et al., 90b:06004
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- Schmitt, Thomas¹ Regular sequences in Z_2 -graded commutative algebra. 90h:17005
- Stewart, Patrick N. Essential nilpotence. 90j:16020
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- Watanabe, Keiichi *see* Narushima, Hiroshi; et al., 90b:06003 and Hibi, Takayuki; et al., 90b:06004

16A04 Noncommutative principal ideal rings, rings with a division algorithm

- Förster, Arved Zur Theorie einseitig euklidischer Ringe. (English and Russian summaries) [On the theory of one-sidedly Euclidean rings] 90f:16004
- Guralnick, R. (with Levy, Lawrence S.; Odenthal, Charles J.) Elementary divisor theorem for noncommutative PIDs. 90c:16005
- Lashkhi, A. A. Harmonic mappings and collineations of modules. (Russian. English and Georgian summaries) 90m:16005
- Levy, Lawrence S. *see* Guralnick, R.; et al., 90c:16005
- Odenhall, Charles J. *see* Guralnick, R.; et al., 90c:16005

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- Chatters, A. W. Representation of tiled matrix rings as full matrix rings. 90f:16020
- Roux, Bernard Résultats de scindage pour certains anneaux de valuation discrète ou finie non commutatifs. [Splitting results for certain noncommutative discrete or finite valuation rings] 90g:16005

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- Blair, William D. (with Small, Lance W.) Embedding differential and skew polynomial rings into Artinian rings. 90b:16003

- Brown, K. A. (with Goodearl, K. R.; Lenagan, T. H.) Prime ideals in differential operator rings. Catenarity. 90b:16005
- Danns, John Centers of semigroup rings and conjugacy classes. 90a:16003
- Dumas, François Centre des anneaux de Cohen, en caractéristique nulle. (English summary) [Center of Cohen rings of characteristic zero] 90b:16003
- Glockner, Peter (with von Waldenfels, Wilhelm) The relations of the noncommutative coefficient algebra of the unitary group. 90m:16006
- Goodearl, K. R. *see* Brown, K. A.; et al., 90b:16005
- Kerer, E. Sh. On decomposition of a binomial in a skew polynomial ring. 90b:16006
- Lam, T. Y. (with Leroy, André) Vandermonde and Wronskian matrices over division rings. 90b:16005
- (with Leung, Ka Hin; Leroy, André; Matczuk, J.) Invariant and semi-invariant polynomials in skew polynomial rings. 90b:16004
- Lascoux, Alain (with Schützenberger, M.-P.) Fonctorialité des polynômes de Schubert. (English summary) [Functoriality of Schubert polynomials] 90b:16003
- Lenagan, T. H. *see* Brown, K. A.; et al., 90b:16005
- Leroy, André *see* Lam, T. Y., 90b:16005 and 90b:16004
- Leung, Ka Hin *see* Lam, T. Y.; et al., 90b:16004
- Makar-Limanov, L. Rings of differential operators on algebraic curves. 90j:16004
- Malm, D. R. Global and Krull dimension of Schmidt differential operator rings. 90b:16007
- Matczuk, J. *see* Lam, T. Y.; et al., 90b:16004
- Schützenberger, M.-P. *see* Lascoux, Alain, 90b:16003
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- Fest, Markus (with Schröder, Martin) Ein nichtkommutativer konvexer Bewertungsring ohne konfinalen Schiefkörper. [A noncommutative convex valuation ring without a cofinal skew field] 90m:12013
- Goodearl, K. R. Global dimension of differential operator rings. IV. Simple modules. 90b:16041
- Lam, T. Y. (with Leroy, André) Vandermonde and Wronskian matrices over division rings. 90b:12009
- Leroy, André *see* Lam, T. Y., 90b:12009
- Mayr, Ernst W. Membership in polynomial ideals over \mathcal{C} is exponential space complete. (see 90i:68014)
- Poole, David G. Localization in Ore extensions of commutative Noetherian rings. 90m:16007
- Schröder, Martin *see* Fest, Markus, 90m:12013
- Tambour, Torbjørn The noncommutative invariants of the finite subgroups of $SL(2, \mathbb{C})$. 90f:20073
- Wilkinson, J. C. Quotient rings, chain conditions and injective ring endomorphisms. 90f:16039

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- Cedó, Ferran On semifir monoid rings. 90j:16005
- Cohn, P. M. Generalized polynomial identities and the specialization lemma. 90j:16006
- Distributive factor lattices in free rings. 90f:16006
- Lewin, Jacques The symmetric ring of quotients of a 2-FIR. 90b:16004
- Roberts, Mark L. The centre of a 2-fir. 90b:16008

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- Cohn, P. M. Valuations on free fields. 90c:12021
- An algebraist looks at coding theory, or how to parse without punctuation. 90i:94016

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- Asensio, María Jesús (with Van den Bergh, Michel; Van Oystaeyen, F.) A new algebraic approach to microlocalization of filtered rings. 90c:16001
- Boyle, Ann K. (with Kosler, Karl A.) Localization at collections of minimal primes. 90b:16002
- Goodearl, K. R. (with Jordan, D. A.) Localizations of essential extensions. 90a:16004
- Jordan, D. A. *see* Goodearl, K. R., 90a:16004
- Kado, Jiro The maximal quotient ring of a left H-ring. (see 90k:16001)
- Kosler, Karl A. *see* Boyle, Ann K., 90b:16002
- Kurata, Yoshiaki Classical quotient rings of Φ -trivial extensions. 90d:16003
- Leroy, André (with Matczuk, J.) Gelfand-Kirillov dimension of certain localizations. 90b:16009
- Matczuk, J. *see* Leroy, André, 90b:16009
- Nazarov, A. O. Localization in the category of topological modules. 90b:16005
- Poole, David G. Localization in Ore extensions of commutative Noetherian rings. 90m:16007
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- Van Oystaeyen, F. *see* Asensio, María Jesús; et al., 90c:16001

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- Albu, Toma (with Năstăsescu, Constantin) Infinite group-graded rings, rings of endomorphisms, and localization. 90b:16001
- Armendariz, Efraim P. (with Hajarnavis, C. R.) A note on semiprime rings algebraic over their centres. 90f:16014
- González, Santos The complete ring of quotients of a reduced alternative ring. Orthogonal completion. 90f:17041
- Hajarnavis, C. R. *see* Armendariz, Efraim P., 90f:16014
- Hendricks, B. (with Verschoren, A.) A note on compatibility and stability. 90b:16024
- Lichtman, Alexander I. On nilpotent and soluble subgroups of linear groups over fields of fractions of enveloping algebras and of group rings. I. 90j:20111
- PI-subrings and algebraic elements in enveloping algebras and their fields of fractions. 90b:17017

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— Divisorially graded rings by polycyclic-by-finite groups. 90b:16015

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— On compositions of derivations of prime rings. 90f:16049

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16A18 Orders, arithmetic in algebras [see also 11R52, 11R54, 11S45]

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— Group rings which are unique factorization rings. (see 90k:20003)

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— The rings with regular adjoint semigroups. 90b:16014

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16A24 Hopf algebras, algebraic theory [see also 57T05]

- Anick, David J. Hopf algebras up to homotopy. 90c:16007
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 — (with Gómez, César; Sierra, G.) Quantum group interpretation of some conformal field theories. 90f:17015
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 Batchelor, Marjorie In search of the graded manifold of maps between graded manifolds. 90j:58021
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 — (with Reshetikhin, N. Yu.) Representations of the algebra $U_q(\mathfrak{sl}(2))$, q -orthogonal polynomials and invariants of links. 90m:17022
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 — An analogue of P.B.W. theorem and the universal R -matrix for $U_q(\mathfrak{sl}(N+1))$. 90h:17019

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 — q -analogues of Clebsch-Gordan coefficients, and the algebra of functions on the quantum group $\text{SU}(2)$. 90k:33018
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 — Yang-Baxter algebras, integrable theories and quantum groups. 90f:81002
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 Sandling, Robert The modular group algebra of a central-elementary-by-abelian p -group. 90c:20007
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16A26 Group rings of finite groups [see also 20C05; for semigroup rings, see 20M25]

- Karpilovsky, Gregory A survey on the Jacobson radical of group algebras. 90h:16020
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 Bhandari, Ashwani K. (with Passi, I. B. S.) Residual solvability of the unit groups of group algebras. 90c:20009
 — (with Weiss, Alfred R.) Residual solvability of unit groups of local group rings. 90k:20009
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 Hales, A. W. (with Passi, I. B. S.) The augmentation quotients of finite abelian p -groups. 90g:20005
 Hiss, Gerhard On the decomposition numbers of $G_2(q)$. 90j:20011
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 Lafuente, Julio On the second Loewy term of projectives of a group algebra. 90k:20021
 Lichtman, Alexander I. (with Sehgal, Sudarshan K.) The elements of finite order in the group of units of group rings of free products of groups. 90k:20012
 Luthar, I. S. (with Passi, I. B. S.) Zassenhaus conjecture for A_5 . 90g:20007
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- Nachev, N. A. (with Mollov, Todor Zh.) Minimal idempotents of semisimple twisted group algebras of cyclic p -groups of odd order. (Russian) 90b:16023
- Nath, Sudhir R. On classification of semigroup rings. 90j:20136
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- Pareigis, Bodo Twisted group rings. 90b:16009
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- Sandling, Robert Berman's work on units in group rings. 90k:20013
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16A27 Group rings of infinite groups [see also 20C07; for semigroup rings, see 20M25]

- Abd el Moneim, Z. see Buzási, Károly, 90m:16014
- Adjaero, Isabelle (with Spiegel, Eugene) Isomorphic group rings over domains. 90d:16010
- Buzási, Károly (with Abd el Moneim, Z.) Realization of twisted algebras in group algebras over finite fields. (Russian) 90m:16014
- Coelho, Sônia P. (with Polcino Milles, César) A note on central idempotents in group rings. II. 90b:16017
- Farkas, Daniel R. (with Linnell, P. A.) Zero divisors in group rings: something old, something new. 90k:16011
- Kolliker, K. Kh. The fundamental ideal and Jacobson radical of crossed products. (Russian) 90c:16009
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- Mollov, Todor Zh. On the isomorphism of the semi-simple group algebras of the primary abelian groups. 90c:16015
- Masson, Ian M. Injective modules, localization and completion in group algebras. 90c:16010
- Neskov, G. A. Integrality of group rings. (Russian) 90j:16025
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- Schaps, M. Deforming group algebras. (see 90h:16001)
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- (Berman, S. D.) see May, Warren, 90g:01052
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- Brown, K. A. (with Marubayashi, Hidetoshi; Smith, Patrick F.) Group rings which are v -HC orders and Krull orders. (see 90k:16001)
- Buzási, Károly On the isomorphisms of left ideals in a real crossed group algebra. 90d:20016
- On the modules over a real crossed group algebra. 90c:20012
- Engel, Alejandro B. (with Makar-Limanov, L.) On group rings which are not Ore domains. 90d:20111
- Lorenz, Martin (with Passman, D. S.) The structure of G_0 for certain polycyclic group algebras and related algebras. 90j:16059
- Makar-Limanov, L. see Engel, Alejandro B., 90d:20111
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- May, Warren The direct factor problem for modular abelian group algebras. 90c:20071
- The work of S. D. Berman on infinite abelian group rings. 90g:01052
- Neskov, G. A. Integrality of the group ring of an almost solvable torsion-free group in $GL_n(Q)$. 90g:20008
- Pareigis, Bodo Twisted group rings. 90k:16009
- Passi, I. B. S. (with Passman, D. S.) Algebraic elements in group rings. 90g:20009
- Passman, D. S. * Infinite crossed products. 90g:16002
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- Smith, Patrick F. see Brown, K. A.; et al., (90k:16001)
- Sokol'skii, A. G. Semigroup rings of semilattices of groups. (Russian) 90m:20078
- Ullery, William Modular group algebras of isotype subgroups of totally projective p -groups. 90m:20008
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- Zhang, Zhao Ji Skew group rings and modules over them. (Chinese. English summary) 90k:16010

16A28 Rings with involution [see also 46Kxx]

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- Giambruno, A. (with Valenti, Angela) Nil \ast -polynomials in rings. 90g:16013

- Lagutina, L. A. Jordan homomorphism of associative algebras with involution. 90k:16013
- Li, Pai Fei On unitary invariant subalgebras. 90j:16026
- Loi, N. V. Semisimple radical classes of involution algebras. 90b:16019
- Ramírez, Hugo Existence conditions for involutions in $K[x; \alpha, \delta]$. (Spanish. English summary) 90c:16016
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- Chacón, M. C -valuations and normal C -orderings. 90b:16016
- Correction to a theorem on C -ordering: " C -orderable division rings with involution" [J. Algebra 75 (1982), no. 2, 495–522; MR 83m:16013]. 90b:16031
- Chang, Jui Chi On (α, β) -derivations of prime rings with involution. 90g:16031
- Chavaler, Georges Orthomodular spaces and Baer \ast -rings. 90j:06017
- McCrimmon, Kevin The Zelmanov approach to Jordan homomorphisms of associative algebras. 90j:17053
- Vukman, J. see Brešar, M., 90j:16076

16A30 von Neumann regular rings and their generalizations [see also 06Cxx, 06Exx]

- Armendariz, Efraim P. (with Berberian, S. K.) Baer rings satisfying $J^2 = J$ for all ideals. 90g:16014
- Berberian, S. K. see Armendariz, Efraim P., 90g:16014
- Besolov, O. K. On varieties of strictly regular algebras. II. (Russian) 90a:16010
- On varieties of strictly regular algebras. I. (Russian) 90a:16009
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- Hannah, John (with O'Meara, K. C.) Depth of idempotent-generated subsemigroups of a regular ring. 90b:16021
- Hirano, Yasuyuki On π -regular rings with no infinite trivial subring. 90b:16010
- Kado, Jiro An example of the completion of rank functions over simple unit regular rings. 90d:16013
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- Kutami, Mamoru Projective modules over regular rings of bounded index. 90c:16017
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- Chen, Jian Long Some remarks on quasiflat modules. (Chinese. English summary) 90d:16029
- Du, Xian Kun The structure of generalized radical rings. 90b:16013
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- El-Mahdy, S. S. Note on graded endomorphism rings of graded regular modules. (Arabic summary) 90b:16002
- González, Santos The complete ring of quotients of a reduced alternative ring. Orthogonal completion. 90b:17041
- Orthogonally complete alternative rings. 90b:17038
- Hannah, John (with O'Meara, K. C.) Products of idempotents in regular rings. II. 90b:16022
- Kutami, Mamoru Projective modules over regular rings of bounded index. (see 90c:16001)
- O'Meara, K. C. see Hannah, John, 90b:16022
- Page, S. S. (with Yousif, M. F.) Relative injectivity and chain conditions. 90b:16023
- Raphael, R. Algebraic closures for some noncommutative rings. 90m:16009
- Stewart, Patrick N. see Burgess, W. D., 90m:16030
- Trlifaj, Jan Lattices of orthogonal theories. 90m:16033
- Tyukavkin, D. V. Rings all of whose one-sided ideals are generated by idempotents. 90b:16024
- Yousif, M. F. see Page, S. S., 90b:16023

16A32 Idempotents in rings [see also 06Exx]

- Hannah, John (with O'Meara, K. C.) Products of idempotents in regular rings. II. 90b:16022
- Hirano, Yasuyuki (with Yaqub, Adil) Rings in which each zero divisor is either nilpotent or idempotent. 90j:16027
- Mollov, Todor Zh. see Nachev, N. A., 90b:16023
- Nachev, N. A. (with Mollov, Todor Zh.) Minimal idempotents of semisimple twisted group algebras of cyclic p -groups of odd order. (Russian) 90b:16023
- O'Meara, K. C. see Hannah, John, 90b:16022
- Tyukavkin, D. V. Rings all of whose one-sided ideals are generated by idempotents. 90b:16024
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- Ara, Pere Left and right projections are equivalent in Rickart C^* -algebras. 90g:46090
- Armendariz, Efraim P. (with Berberian, S. K.) Baer rings satisfying $J^2 = J$ for all ideals. 90g:16014
- Berberian, S. K. see Armendariz, Efraim P., 90g:16014
- Burgess, W. D. (with Fuller, K. R.) On quasihereditary rings. 90d:16037
- Dlab, Vlastimil The heredity measure of an algebra. 90b:16035
- Fuller, K. R. see Burgess, W. D., 90d:16037

- Hannah, John (with O'Meara, K. C.) Depth of idempotent-generated subsemigroups of a regular ring. 90h:16021
- Kaplansky, Irving CCR-rings. 90a:16011
- Kim, Chang Bum see Kim, Jin Bai, 90d:06019
- Kim, Jin Bai (with Kim, Chang Bum) Nearly zero Boolean idempotent matrices. 90d:06019
- O'Meara, K. C. see Hannah, John, 90h:16021
- Vais, I. Algebras that are generated by two idempotents. (Russian) 90h:46083

16A33 Noetherian rings

- Chatters, A. W. Noncommutative regular local rings of dimension 2. II. 90e:16019
- (with Hajarnavis, C. R.) Ideal arithmetic in Noetherian PI rings. 90e:16020
- Coutinho, S. C. (with Holland, M. P.) Differential operators on smooth varieties. 90m:16017
- Dinh Van Huynh (with Nguyễn Việt Dũng²; Smith, Patrick F.) Rings characterized by their right ideals or cyclic modules. 90i:16012
- Gilchrist, Martin Noncommutative Noetherian unique factorization domains often have stable range one. 90e:16013
- Hajarnavis, C. R. see Chatters, A. W., 90e:16020
- Holland, M. P. see Coutinho, S. C., 90m:16017
- Lee, Heakyung Corrigendum: "Strongly right FBN rings" [Bull. Austral. Math. Soc. 38 (1988), no. 3, 457-464; MR 89h:16013]. 90d:16014
- Letzter, Edward Primitive ideals in finite extensions of Noetherian rings. 90e:16013
- McConnell, John Coulter (with Pettit, J. J.) Crossed products and multiplicative analogues of Weyl algebras. 90e:16011
- Nguyễn Việt Dũng² see Dinh Van Huynh; et al., 90i:16012
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- Tuganbaev, A. A. Distributive rings with finiteness conditions. 90e:16021

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- (with Schack, Samuel D.) Bialgebra cohomology, deformations, and quantum groups. 90j:16062
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- Yanik, Joe Deformations of rings. 90c:16040

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- Ding, Nan Qing The finitely generated dimension of modules. (Chinese. English summary) 90k:16031
- Gaveta-Ivanova, Tatiana Global dimension of associative algebras. 90k:16032
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- Semigroup identities in near-rings. (Italian summary) 90:16032
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- van der Walt, Andries P. J. (with van Wyk, L.) The J_2 -radical in structural matrix near-rings. 90:16065
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- Cohen, Jo-Ann (with Koh, Kwangil) On the group actions of the units on nonunits in a compact ring. 90a:16030
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16A89 Equivalence of module categories

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- Mittas, Jean D. *see* Ioulidis, Stavros, 90c:16071
- Mukherjee, T. K. (with Sen, Mridul Kanti) Prime fuzzy ideals in rings. 90h:16064
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- Roosmelli, R. Proof of nonidentities in finite-dimensional algebras using a computer. (Russian. English summary) 90h:17051

17-06 Proceedings, conferences, etc.

- (Benkart, G. M.) *see* Lie algebras, Madison 1987, 90d:17001
- (Kac, V. G.) *see* Infinite-dimensional Lie algebras and groups, 90h:17001
- (Osborn, J. Marshall) *see* Lie algebras, Madison 1987, 90d:17001

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- Conference:
- Infinite-dimensional Lie Algebras and Groups \star Infinite-dimensional Lie algebras and groups. 90h:17001
- Infinite-dimensional Lie algebras and groups \star Infinite-dimensional Lie algebras and groups. 90h:17001
- Lecture Notes in Mathematics \star Lie algebras, Madison 1987. 90d:17001
- Lie algebras, Madison 1987 \star Lie algebras, Madison 1987. 90d:17001
- Luminy-Marseille \star Infinite-dimensional Lie algebras and groups. 90h:17001
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- Workshop:
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- Algèbres génétiques \star Algèbres génétiques. (French) [Genetic algebras] 90m:17045
- Colloquium:
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- Genetic algebras \star Algèbres génétiques. (French) [Genetic algebras] 90m:17045
- Montpellier \star Algèbres génétiques. (French) [Genetic algebras] 90m:17045

17Axx General nonassociative rings

17A01 General theory

- Nimmo, Steven D. Anticommutative derivation alternator rings. 90h:17002
- Nishioka, Michio Noncanonical commutation relations and Jacobi's identity. 90a:17001
- Röhrl, Helmut (with Walcher, Sebastian) Some classes of algebras and their derivation algebras. 90h:17003
- Walcher, Sebastian *see* Röhrl, Helmut, 90h:17003

17A05 Power-associative

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- Beidar, K. I. (with Glavatskii, S. T.; Mikhalev, A. V.) Semisimple classes and lower radicals of topological nonassociative algebras. (Russian. English summary) 90b:16018
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- Mikhalev, A. V. see Beidar, K. I.; et al., 90b:16018
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17A10 Commutative power-associative

- Hentzel, I. R. (with Jacobs, D. P.) Jordan and right alternative counterexamples. 90c:17001
- Jacobs, D. P. see Hentzel, I. R., 90c:17001

17A15 Noncommutative Jordan algebras

- Benslimane, M. (with Fernández López, Antonio; Kaidi, El Amin Mokhtar) Caractérisation des algèbres de Jordan-Banach de capacité finie. [Characterization of finite-capacity Jordan-Banach algebra] 90c:17001
- Cobalea Vico, Amalia (with Fernández López, Antonio) Prime noncommutative Jordan algebras with nonzero socle and central closure. 90g:17001
- Fernández López, Antonio see Benslimane, M.; et al., 90c:17001 and Cobalea Vico, Amalia, 90g:17001
- Kaidi, El Amin Mokhtar see Benslimane, M.; et al., 90c:17001

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- Dedkov, A. I. Some properties of quasi-associative and quasi-alternative algebras. 90i:17003
- Michor, Peter W. (with Ruppert, Wolfgang A. F.; Wegenkittl, K.) On a construction connecting Lie algebras with general algebras. 90j:17004
- Ruppert, Wolfgang A. F. see Michor, Peter W.; et al., 90j:17004
- Wegenkittl, K. see Michor, Peter W.; et al., 90j:17004

17A30 Algebras satisfying other identities

- Allison, B. N. (with Schafer, R. D.) Trace form for structurable algebras. 90d:17002
- Boers, A. H. Some theorems on semi-prime nonassociative rings. 90c:17002
- Buraškin, A. G. (with Valichenska, I. B.) Polylinear identities of the pair $(K_2, \text{sl}_2(K))$ and identities with symplectic involutions of the algebra K_2 over a field K of odd characteristic. (Belorussian. English and Russian summaries) 90j:17001
- Dedkov, A. I. Some properties of quasi-associative and quasi-alternative algebras. 90i:17003
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- Kleinfeld, Erwin Rings with associators in the commutative center. 90c:17003
- Piacentini Cattaneo, G. M. Nonassociative degree five identities not implied by commutativity: a computer approach. 90j:17003
- Schafer, R. D. Invariant forms on central simple structurable algebras. 90d:17003
- see also Allison, B. N., 90d:17002
- Telekonnikov, G. K. Classification of algebras with identities by the method of functional equations. 90g:17002
- Valichenska, I. B. see Buraškin, A. G., 90j:17001

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- Frenkel, Igor B. (with Jing, Nai Huan) Vertex representations of quantum affine algebras. 90e:17028
- Jing, Nai Huan see Frenkel, Igor B., 90e:17028
- Kleinfeld, Erwin (with Widmer, Lamarr) Rings satisfying $(x, y, z) = (y, z, x)$. 90k:17068
- Widmer, Lamarr see Kleinfeld, Erwin, 90k:17068

17A35 Division algebras

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- Fernández López, Antonio see Cobalea Vico, Amalia, 90g:17001
- Jha, Vikram (with Johnson, Norman Lloyd¹) An analog of the Albert-Knuth theorem on the orders of finite semifields, and a complete solution to Cofman's subplane problem. 90i:51009
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- Kilmer, Dirk Über die Projektivitätsgruppen von Semikörperebenen gerader Ordnung. (English summary) [On the groups of projectivities of semifields of even order] 90f:51011
- Koca, Mehmet E_8 lattice with icosians and Z_5 symmetry. 90i:17015
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- Spiegel, Eugene (with Trojan, Allan) Schur algebras and isomorphic division algebras. 90j:16042
- Trojan, Allan see Spiegel, Eugene, 90j:16042

17A36 Automorphisms, derivatives, other operators

- Darafsheh, M. R. On commutative nonassociative algebras associated with a group of automorphisms of a 2-design. 90i:17004

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Items with secondary classifications in 17A36

- Nimmo, Steven D. Anticommutative derivation alternator rings. 90b:17002

17A40 Ternary compositions

- Kamiya, Noriaki A structure theory of Freudenthal-Kantor triple systems. II. 90f:17002
- Shaw, Ronald Octonions without octonions. 90d:17004
- Ternary composition algebras and Hurwitz's theorem. 90g:17003

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- Asano, Hiroshi see Kaneyuki, Soji, 90d:17026
- Günaydin, Murat Vertex operator construction of nonassociative algebras and their affinizations. 90g:17024
- Kaneyuki, Soji (with Asano, Hiroshi) Graded Lie algebras and generalized Jordan triple systems. 90d:17026
- Shaw, Ronald A 2-dimensional quaternionic construction of an 8-dimensional ternary composition algebra. (Italian and Russian summaries) 90k:17005

17A42 Other n -ary compositions

Items with secondary classifications in 17A42

- Kasymov, Sh. M. On a theory of n -Lie algebras. (Russian) 90j:17052

17A45 Quadratic algebras (not quadratic Jordan algebras)

- Elduque, Alberto Quadratic alternative algebras. 90m:17001
- Michor, Peter W. (with Ruppert, Wolfgang A. F.; Wegenkittl, K.) On a construction connecting Lie algebras with general algebras. 90j:17004
- Ruppert, Wolfgang A. F. see Michor, Peter W.; et al., 90j:17004
- Wegenkittl, K. see Michor, Peter W.; et al., 90j:17004

17A50 Free algebras

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- Sverchkov, S. R. Reduced-free nonspecial Jordan algebras. 90f:17046

17A60 Structure theory in general nonassociative rings

- Sliv'ko, A. M. Splitting of a compact ring into the sum of a radical and an inertial subring. 90e:17003

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- Cabrera-García, M. (with Martínez Moreno, Juan; Rodríguez-Palacios, Ángel) Nonassociative real H^* -algebras. 90a:46147
- Martínez Moreno, Juan see Cabrera-García, M.; et al., 90a:46147
- Rodríguez-Palacios, Ángel see Cabrera-García, M.; et al., 90a:46147

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- The intersection property for radicals. 90m:16012
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- Backhouse, N. B. (with Fellouris, A. G.) The nonuniqueness of supertrace. 90c:17004
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- Barrett, B. R. see Schmitt, H. A.; et al., 90m:17007
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- Bergvelt, M. J. A note on super Fock space. 90g:17004
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- Brial, Andrea (with Teolis, Antonio G. B.) Young-Capelli symmetrizers in superalgebras. 90d:17005
- Brussee, Rogier Produced representations of Lie algebras and superfields. (French summary) 90g:17005
- Chen, Yong Qing A new form of boson-fermion representation of the $\text{osp}(1, 2)$ superalgebra. (Chinese summary) 90e:17003
- Cornwell, J. F. ★ Group theory in physics. Vol. III. 90m:17002
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- Dohrer, V. K. Structure of Verma modules and characters of irreducible highest weight modules over $N = 2$ superconformal algebras. 90m:17003
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- Frydryszak, Andrzej New supersymmetry transformations for a graded superfield oscillator. 90g:17006
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- Kammpingene, Alfred H. (with Nguyen Anh Ky; Palev, Tchevdar D.) Finite-dimensional representations of the Lie superalgebra $gl(2/2)$ in a $gl(2) \oplus gl(2)$ basis. I. Typical representations. 90c:17005
- Kim, Chang-Ho (with Kim, Kee Yong; Kim, Yong Duk; Lee, Hyung Won; Yi, W. S.; Park, Young-Jai) Superalgebras for superstring states. 90c:17007
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- Koszul, Jean-Louis Les superalgèbres de Lie $W(n)$ et leurs représentations. [The Lie superalgebras $W(n)$ and their representations] 90d:17006
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- Lee, Hyung Won see Kim, Chang-Ho; et al., 90c:17007
- van de Leur, Johan W. A classification of contragredient Lie superalgebras of finite growth. 90j:17008
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- Mendaš, I. (with Milutinović, P.) Anticommutator analogue of the Baker-Hausdorff lemma. 90h:17004
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- Sclarrino, Antonio see Frappat, Luc; et al., 90c:17028 and 90h:17047
- Sen, Ashoke see Mathur, Samir D.; et al., 90k:81225
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- Servin, A. (with Troost, W.; Van Proeyen, A.; Spindel, Ph.) Extended supersymmetric σ -models on group manifolds. II. Current algebras. 90f:81044
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- Spindel, Ph. see Servin, A.; et al., 90f:81044
- Suzuki, Hisao see Kazama, Yoichi, 90k:81215
- Takasaki, Kanehisa Symmetries of the super KP hierarchy. 90f:58098
- Tolstov, N. M. Extremal projections and reduced superalgebras over finite-dimensional contragredient Lie superalgebras. 90a:17003
- Townsend, Paul K. see de Azavedo, J. A., 90b:17022
- Troost, W. see Servin, A.; et al., 90f:81044 and Gastmans, R.; et al., 90j:17037
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- Van der Jeugt, J. Unimodal polynomials arising from Lie superalgebras. 90c:17013
- Van Proeyen, A. see Servin, A.; et al., 90f:81044 and Gastmans, R.; et al., 90j:17037
- Vasil'ev, M. A. Some properties of generalised $(\times Z_2)^n$ -graded Lie superalgebras and generalised de Sitter supersymmetry. 90c:17044
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- see also Fradkin, E. S., 90c:81087
- Villasante, M. see Kwon, P., 90f:17007
- Vincent, C. M. see Kim, G.-K., 90c:81246 and Kuchta, R., 90k:81281
- Winternitz, P. see Gagnon, Langis; et al., 90j:58131
- Yoshii, Hisahiro Nonabelian Feigin-Fuchs deformation of (super-)conformal algebras. 90d:17022
- (Zachos, Cosmas K.) see Uretsky, Jack L., 90c:17032
- Zhang, R. B. see Jarvis, P. D., 90f:17039 and 90f:17040

17A75 Composition algebras

- Foot, R. (with Joshi, G. C.) Nonstandard signature of spacetime, superstrings, and the split composition algebras. 90m:17008
- Joshi, G. C. see Foot, R., 90m:17008
- Shaw, Ronald Ternary composition algebras: 8 dimensions out of 4? (Italian and Russian summaries) 90f:17005
- A 2-dimensional quaternionic construction of an 8-dimensional ternary composition algebra. (Italian and Russian summaries) 90k:17005
- Wese, G. P. The metric of a space and quadratic algebras. 90a:17002
- Items with secondary classifications in 17A75
- El-Mallah, Mohamed Lamel Absolute valued algebras containing a central idempotent. 90j:17002
- Lausch, Huberta Automorphisms of Cayley algebras over finite fields. 90f:17001
- Roberts, Joel \star Projective embeddings of algebraic varieties. 90b:14017
- Shaw, Ronald Octonions without octonions. 90d:17004
- Ternary composition algebras and Hurwitz's theorem. 90g:17003

17A99 None of the above, but in this section

- Bhattacharya, D. K. On paring. 90f:17006
- Hentzel, I. R. (with Peresi, L. A.) Semi-prime Bernstein algebras. 90m:17009

- Peresi, L. A. see Hentzel, I. R., 90m:17009
- Smith, J. D. H. Multilinear algebras and Lie's theorem for formal n -loops. 90c:17007
- Items with secondary classifications in 17A99
- Darafsheh, M. R. On commutative nonassociative algebras associated with a group of automorphisms of a 2-design. 90b:17004
- Epanchintsev, V. I. (with Kukin, G. P.) Higman quasivarieties. (Russian) 90c:08008
- Holden, Herbert Lee Rings on \mathbb{R}^2 . 90d:16024
- Kukin, G. P. see Epanchintsev, V. I., 90c:08008
- Martynov, L. M. Varieties of solvable algebras. (Russian) 90k:08013
- Ursul, M. I. Uniqueness of compact topologies on rings. (Russian) 90b:16047

17Bxx Lie algebras {For Lie groups, see 22Exx.}

17B05 Structure theory

- Bowman, Kevin (with Towers, David) Modularity conditions in Lie algebras. 90m:17010
- Carles, R. L'ensemble des algèbres de Lie algébriques n'est pas Zariski-dense dans la variété des algèbres de Lie de dimension $M \geq 9$. [The set of algebraic Lie algebras is not Zariski-dense in the variety of Lie algebras of dimension $M \geq 9$] 90f:17007
- Dörr, Norbert On irreducible $sl(2, \mathbb{R})$ -modules and sl_2 -triples. 90k:17006
- Duchamp, G. (with Thibon, J.-Y.) Le support de l'algèbre de Lie libre. (English summary) [The support of the free Lie algebra] 90h:17007
- Goika, V. I. (with Skiba, A. N.) On 3-pre-Frattini subalgebras of Lie algebras of finite length. (Russian) 90c:17007
- Gómez, J. R. Central sequence of Lie algebras. 90k:17007
- Goss, Michel Perturbations of Lie algebra structures. 90c:17008
- Hilgert, Joachim (with Hofmann, Karl Heinrich) Compactly embedded Cartan algebras and invariant cones in Lie algebras. 90f:17008
- Hofmann, Karl Heinrich see Hilgert, Joachim, 90f:17008
- Jing, Si Cong (with Ruan, Tu Nan) A generalized Baker-Hausdorff formula and its application. (Chinese) 90f:17009
- Kharlamovich, O. G. The word problem for solvable Lie algebras and groups. (Russian) 90k:17008
- Martynov, L. M. Spectra of solvability for varieties of Lie algebras and Lie rings. 90f:17010
- Nikolaev, Ruslan St. Identities of three variables in the Lie algebra $sl(2, K)$ over a field of characteristic zero. (Russian) 90c:17008
- Ruan, Tu Nan see Jing, Si Cong, 90f:17009
- Silva Leite, F. Pairs of generators for compact real forms of the classical Lie algebras. 90f:17007
- Skiba, A. N. see Goika, V. I., 90c:17007
- Spindler, Karlheinz Invariante Kegel in Liealgebren. [Invariant cones in Lie algebras] 90b:17005
- Thibon, J.-Y. see Duchamp, G., 90h:17007
- Towers, David see Bowman, Kevin, 90m:17010
- Tsyapunov, L. V. The finite basis property of varieties of Lie algebras over a field of characteristic zero. (Russian) 90m:17011
- Varea, Vicente R. Lie algebras with anisotropic Engel subalgebras. 90c:17009
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- Zaitsev, M. V. Locally representable varieties of Lie algebras. (Russian) 90k:17009
- Items with secondary classifications in 17B05
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- Aldrovandi, R. (with Pereira, J. G.) Existence of Lagrangians for the Yang-Mills equations. 90b:58047
- Altschüler, Daniel Nonunitarity in rational conformal field theories. 90b:81109
- Bergeron, F. A story about computing with roots of unity. 90f:17001
- Błaszak, M. (with Wojciechowski, S.) Bi-Hamiltonian dynamical systems related to low-dimensional Lie algebras. 90b:58062
- Cuenca Mira, José Antonio (with García Martín, Amable; Martín González, Cándido) Structure theory for L^* -algebras. 90k:46152
- D'Atri, Joseph E. (with Zhao, Yan Da) A refined structure theorem for normal j -algebras. 90c:32038
- DeVun, E. E. (with Graham, George E.) Semigroups with commuting threads. 90c:22003
- Dillon, Meighan I. Weight strings in nonstandard representations of Kac-Moody algebras. 90k:17056
- Drenski, Veselin S. Extremal varieties of algebras. I. (Russian) 90c:08010
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- van Est, W. T. Une démonstration de É. Cartan du troisième théorème de Lie. [A proof due to É. Cartan of Lie's third theorem] 90c:22030
- García Martín, Amable see Cuenca Mira, José Antonio; et al., 90k:46152
- Gichev, V. M. Invariant orderings in solvable Lie groups. 90i:22013
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- Honda, Masanobu On Lie algebras in which every subalgebra is a subideal. 90f:17029
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- Kostrikin, Aleksei Ivanovich Invariant lattices in Lie algebras and their automorphism groups. 90d:17014
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- Melançon, Guy (with Reutenauer, Christophe) Lyndon words, free algebras and shuffles. 90j:20074
- Mendaš, I. (with Milutinović, P.) Anticommutator analogue of the Baker-Hausdorff lemma. 90b:17004
- Mikhailov, A. A. A composition lemma and the word problem for color Lie superalgebras. (Russian) 90m:17005
- Milutinović, P. see Mendaš, I., 90b:17004
- Nunemacher, Jeffrey Which real matrices have real logarithms? 90f:15024
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- Premet, A. A. (with Semenov, K. N.) Varieties of residually finite Lie algebras. 90b:17023
 — Regular Cartan subalgebras and nilpotent elements in restricted Lie algebras. 90g:17017
 Razmyslov, Yu. P. Inclusions of varieties that are generated by simple Lie algebras. (Russian) 90b:17064
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 Rosset, Shmuel. A higher analogue of the lower central series and some applications of it. (French summary) 90m:20037
 Rousseau, Guy. Almost split K -forms of Kac-Moody algebras. 90b:17036
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 Strade, Helmut. Lie algebra representations of dimension $< p^2$. 90j:17015
 Thompson, Robert C. Convergence proof for Goldberg's exponential series. 90c:22011
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17B10 Representations, algebraic theory (weights)

- Akin, Kean. Resolutions of representations. 90c:17010
 Arnaudon, D. *see* Roche, P., 90b:17013
 Bakhturin, Yu. A. Lie superalgebras with bounded degrees of irreducible representations. 90c:17010
 Benkart, G. M. (with Britten, D. J.; Lemire, F. W.) Stability in modules for classical Lie algebras—a constructive approach. 90m:17012
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 Brylinski, Rames Kathryn. Limits of weight spaces, Lusztig's q -analogs, and fiberings of adjoint orbits. 90g:17011
 Carlin, K. J. Completion and translation in O . 90b:17011
 Chacón, E. (with Moshinsky, M.) Representation of the generators of symplectic algebras. 90b:17012
 Collingwood, David H. (with Irving, Ronald S.) A decomposition theorem for certain self-dual modules in the category \mathcal{F} . 90b:17010
 Deckhart, Robert W. Modular maximal vectors and the Kostant cone. 90b:17011
 Drozd, Yu. A. (with Ovsienko, S. A.; Futorny, V. M.) Irreducible weighted $\mathfrak{sl}(3)$ -modules. (Russian) 90b:17011
 Feinsilver, Philip (with Kocik, Jerry) Representations of the Heisenberg algebra, Riccati systems, and associated geometric structures. 90b:17012
 Futorny, V. M. Irreducible $\mathfrak{sl}(3)$ -modules with infinite-dimensional weight subspaces. 90b:17013
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 Gruber, Bruno (with Lorente, Miguel; Nomura, Toshio; Ramek, Michael) Symmetry adaptation of wavefunctions and matrix elements. 90b:17006
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 Kehäilinen, Pekka. On irreducible A_2 -finite G_2 -modules. 90b:17012
 King, Ronald Curtis. S -functions and characters of Lie algebras and superalgebras. 90b:17014
 Kirillov, A. N. (with Reshetikhin, N. Yu.) Multiplicity of weights in irreducible tensor representations of a complete linear superalgebra. 90b:17013
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 Kumar, Shrawan. A refinement of the PRV conjecture. 90b:17008
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 Li, Guang Hua¹. The application of inverse Cartan matrices. (Chinese. English summary) 90b:17014
 — (with He, Hui Yong; Lin, Ji) A method of calculating all weights. (Chinese. English summary) 90b:17008
 — (with Lin, Ji; He, Hui Yong) Labels of irreducible representations of simple Lie algebras. (Chinese. English summary) 90b:17009
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 Lin, Ji. *see* Li, Guang Hua¹; et al., 90b:17008 and 90b:17009
 Lorente, Miguel. *see* Gruber, Bruno; et al., 90b:17006 and 90b:17013
 Lyudskovskii, S. V. Matrices that represent canonical elements of universal envelopes of classical Lie algebras in the Gelfand-Tsetlin basis. (Russian) 90m:17014
 Manturov, O. V. (with Garbanov, Zh.) A class of algebras with an irreducible group of automorphisms. (Russian. English summary) 90b:17007
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 Molev, A. I. The Gelfand-Tsetlin basis for irreducible unitarizable representations of $u(p, q)$ with highest weight. (Russian) 90b:17016
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 Pater, Tshavdar D. Irreducible finite-dimensional representations of the Lie superalgebra $gl(n/1)$ in a Gelfand-Tsetlin basis. 90b:17017
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 Roche, P. (with Arnaudon, D.) Irreducible representations of the quantum analogue of $SU(2)$. 90b:17013
 Roman, M. A. Duality for presheaves on chamber systems, and a related chain complex. 90b:17014
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 Tello-Llanos, R. A. A new Holstein-Primakoff realisation of $\mathfrak{sp}(4, \mathbb{R})$. 90b:17010
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 Andersen, Henning Haahr (with Kaneda, Masaharu) Loewy series of modules for the first Frobenius kernel in a reductive algebraic group. 90b:20062
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 Biedenharn, L. C. (with Louck, J. D.) Inhomogeneous basis set of symmetric polynomials defined by tableaux. 90m:22031
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 Borovik, A. V. Finite subgroups of simple algebraic groups. (Russian) 90m:20051
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 Chari, Vyjayanthi (with Pressley, Andrew) Towards a classification of integrable representations of affine Lie algebras. 90b:17039
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 Cline, E. (with Parshall, B.; Scott, Leonard L.) Algebraic stratification in representation categories. 90d:18004
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 Coleman, A. J. (with Howard, Mary) Root multiplicities for general Kac-Moody algebras. 90b:17034
 Date, E. (with Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) A new realization of the basic representation of $A_n^{(1)}$. 90b:17036
 Davidson, M. G. (with Stanke, R. J.) Gradient-type differential operators and unitary highest weight representations of $SU(p, q)$. 90b:22025
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 Dong, Chong Ying. Structure of some nonstandard modules for $C_2^{(1)}$. 90b:17037
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- Furutsu, Hirotsu (with Hirai, Takeshi) Representations of Lie superalgebras. I. Extensions of representations of the even part. 90f:17042
- Gerdzhikov, V. S. Soliton equations and the representation theory of the semisimple Lie algebras. 90m:58085
- Glazburg, V. A. Geometrical aspects of representation theory. 90e:22028
- Gould, M. D. Representation theory of the symplectic groups. I. 90e:22047
- Atypical representations for type-I Lie superalgebras. 90e:17004
- Gruber, Bruno see Doehner, H.-D.; et al., 90e:22035
- Gurbanov, Zh. Algebras that are invariant with respect to some irreducible representations of the group $SL(n)$. (Russian. English summary) 90j:17030
- Halse, P. see Schmitt, H. A.; et al., 90m:17007
- Hirai, Takeshi see Furutsu, Hirotsu, 90f:17042
- Howard, Mary see Coleman, A. J., 90e:17034
- Hull, C. M. Chiral conformal field theory and asymmetric string compactification. 90d:81112
- Jakobsen, Hans Plesner On the range of unitarity for highest weight representations of classical Lie superalgebras. 90f:17007
- Jarvis, P. D. (with Zhang, R. B.) Unitary Sugawara constructions for affine superalgebras. 90f:17039
- (with Zhang, R. B.) Affine superalgebras, unitary representations and the Sugawara construction. 90e:17040
- Jimbo, Michio (with Kuniba, A.; Miwa, Tetsuji; Okado, Masato) The $A_n^{(1)}$ face models. 90h:17044
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- Joseph, A. Rings of \mathfrak{h} -finite endomorphisms of simple highest weight modules are Goldie. 90k:17028
- Judson, Thomas W. Complete filtered Lie algebras and the Spencer cohomology. 90j:17032
- Kamupingene, Alfred H. (with Nguyen Anh Ky; Palev, Tchavdar D.) Finite-dimensional representations of the Lie superalgebra $gl(2/2)$ in a $gl(2) \oplus gl(2)$ basis. I. Typical representations. 90e:17005
- Kaneda, Masaharu see Andersen, Henning Haahr, 90h:20062
- Kashiwara, Masaki The invariant holonomic system on a semisimple Lie group. 90k:22021
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- Klein, Abraham (with Marshalek, Eugene R.) On the boson-quasifermion realization of the particle-hole $SO(2\Omega + 1)$ algebra. 90e:81247
- Kostrikin, Aleksei Ivanovich Invariant lattices in Lie algebras and their automorphism groups. 90d:17014
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- Ku, Jong Min Structure of the Verma module $M(-p)$ over Euclidean Lie algebras. 90k:17057
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- Kuznetsov, M. I. Truncated induced modules over transitive Lie algebras of characteristic p . 90k:17037
- Lacki, Jan (with Ruegg, Henri) Representations of Kac-Moody algebras using twisted vertex operators. 90j:17042
- Langlands, R. P. The factorization of a polynomial defined by partitions. 90j:11101
- Lebedenko, V. M. ★ Пары образующих элементов супералгебр Ли классического типа и представления $osp(m, n)$. (Russian) [Pairs of generator elements of Lie superalgebras of classical type and the representations $osp(m, n)$] 90f:17044
- Lepowsky, James Perspectives on vertex operators and the Monster. 90f:17031
- Li, Hai Sheng Integrable modules over the affine Lie algebra $A_n^{(1)}$. (Chinese. English summary) 90d:17023
- Integrable modules of affine Kac-Moody Lie algebras. (Chinese. English summary) 90j:17043
- Li, Keke Catastrophe and (super-)conformal discrete series. 90a:81142
- Lorente, Miguel see Doehner, H.-D.; et al., 90e:22035
- Louck, J. D. see Biedenharn, L. C., 90m:22031
- Lu, Shi Rong Some results on modular invariant representations. 90k:17058
- Lusztig, George Cells in affine Weyl groups. IV. 90k:20068
- Marshakov, A. V. The Dotsenko-Fateev representation for Wess-Zumino-Witten models. 90h:81177
- Marshalek, Eugene R. see Klein, Abraham, 90e:81247
- Mathies, Olivier Formules de caractères pour les algèbres de Kac-Moody générales. (English summary) [Character formulas for general Kac-Moody algebras] 90d:17024
- Mathur, Samir D. (with Sen, Ashoke) Group theoretic classification of rational conformal field theories with algebraic characters. 90m:81123
- Mitra, Bani (with Tripathy, K. C.) Cohomology and reducibility of representations of semisimple Γ -graded Lie algebras. 90e:17040
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- Schmitt, H. A. (with Halse, P.; Barrett, B. R.; Balantekin, A. B.) Positive discrete series representations of the noncompact superalgebra $Osp(4/2, \mathbb{R})$. 90m:17007
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- Hallat, Mohammad Q. GW-rootsystems over fields of characteristic seven. 90j:17016
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- Konrakov, B. P. Reductive subalgebras of semisimple real Lie algebras. 90b:17013
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- Dillon, Meaghan I. Weight strings in nonstandard representations of Kac-Moody algebras. 90b:17056
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— Icosians versus octonions as descriptions of the E_8 lattice. Addendum to: "Division algebras with integral elements" [J. Phys. A 22 (1989), no. 10, 1469–1493; MR 90h:17002] by Koca and N. Özdes. 90b:17003
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- Medvedev, Yu. A. Jordan A -algebras. (Russian) 90f:17047
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- Aupetit, Bernard (with Baribeau, Line) Sur le socle dans les algèbres de Jordan-Banach. [On the socle of Jordan-Banach algebras] 90m:46085
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- Hentzel, I. R. (with Peresi, L. A.) Almost Jordan rings. 90a:17021
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- Hollowood, T. J. *see* Corrigan, E. F., 90j:81183
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- McCrimmon, Kevin** The Zelmanov approach to Jordan homomorphisms of associative algebras. **90j:17053**

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- Lagutina, L. A.** Jordan homomorphism of associative algebras with involution. **90k:16013**

17C35 Formally real domains of positivity [see also 32Nxx]

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- Günaydin, Murat** (with Hyun, S. J.) Affine exceptional Jordan algebra and vertex operators. **90e:17036**
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Rao, S. Devadoss (with Rema, P. S.) Gleason-Kahane-Zalazko [Želasko] theorem for Banach Jordan algebras and triple systems. **90c:46040**
Rema, P. S. see Rao, S. Devadoss, **90c:46040**
Russo, Bernard see Friedman, Yaakov, **90d:46087** and **90g:46099**
Rüttimann, Gottfried T. see Edwards, C. M., **90b:46129**
Tadzhibaev, B. R. see Ayupov, Sh. A.; et al., **90d:46074**
Timoney, Richard M. Weak*-continuity of Jordan triple products and applications. **90a:46179**
Usmanov, Sh. M. Diameter of the state space of a σ -finite JW -factor of type III_λ , $0 < \lambda < 1$. (Russian) **90g:46101**
 — see also Ayupov, Sh. A., **90g:46102**
Włodarczyk, Kazimierz The angular derivative of Fréchet-holomorphic maps in J^* -algebras and complex Hilbert spaces. **90c:46066**
Zakirov, F. M. Classification of Jordan dynamical systems. (Russian) **90f:46111**
Zhang, Yong Ping On a conjecture of Saito. (Chinese. English summary) **90m:46120**

17C99 None of the above, but in this section

Items with secondary classifications in 17C99

- Allison, B. N.** (with Schafer, R. D.) Trace form for structurable algebras. **90d:17002**
Foot, R. (with Joshi, G. C.) A natural framework for the minimal supersymmetric gauge theories. **90c:81110**
Hentzel, I. R. (with Peresi, L. A.) Semi-prime Bernstein algebras. **90m:17009**
Joshi, G. C. see Foot, R., **90c:81110**
Martynov, L. M. Varieties of solvable algebras. (Russian) **90k:08013**
Peresi, L. A. see Hentzel, I. R., **90m:17009**
Ronga, Henri Fermions and Jordan matrices. **90g:81267**
Schafer, R. D. Invariant forms on central simple structurable algebras. **90d:17003**
 — see also Allison, B. N., **90d:17002**

17Dxx Other nonassociative rings and algebras

17D05 Alternative rings

- Chein, Orin** (with Goodaire, Edgar G.) Is a right alternative loop ring alternative? **90b:17043**
Chu, Hua The elements of finite order in Cayley algebras. **90b:17044**
González, Santos The complete ring of quotients of a reduced alternative ring. Orthogonal completion. **90f:17041**
 — Orthogonally complete alternative rings. **90e:17038**
Goodaire, Edgar G. see Chein, Orin, **90b:17043**
Hentzel, I. R. The Andrunakievich lemma for alternative rings. **90k:17066**
Pchelintsev, S. V. Locally Noetherian and locally representable varieties of alternative algebras. **90c:17039**
Racine, Michel L. Minimal identities of octonion algebras. **90c:17048**

Items with secondary classifications in 17D05

- Beidar, K. I.** (with Glavatskii, S. T.; Mikhalev, A. V.) Semisimple classes and lower radicals of topological nonassociative algebras. (Russian. English summary) **90h:16018**
Dedkov, A. I. Some properties of quasi-associative and quasi-alternative algebras. **90f:17003**
Édoque, Alberto Quadratic alternative algebras. **90m:17001**
Glavatskii, S. T. see Beidar, K. I.; et al., **90h:16018**
Kanemaki, Shōji Hurwitz pairs and octonions. **90c:53045**
Kibler, M. see Lambert, Dominique, **90j:58049**
Kleinfeld, Erwin (with Widmer, Lamarr) Rings satisfying $(x, y, z) = (y, z, x)$. **90k:17068**
Lambert, Dominique (with Kibler, M.) Levi-Civita, Kustaanheimo-Stiefel and other transformations. **90j:58049**
Lausch, Huberta Automorphisms of Cayley algebras over finite fields. **90f:17001**
Martynov, L. M. Varieties of solvable algebras. (Russian) **90k:08013**
Mikhalev, A. V. see Beidar, K. I.; et al., **90h:16018**
Nôno, Kiyoharu On the octonionic linearization of Laplacian and octonionic function theory. **90i:30079**
Shaw, Ronald Octonions without octonions. **90d:17004**
Slin'ko, A. M. Locally compact Jordan rings that are close to division rings. **90e:17037**
Wene, G. P. The metric of a space and quadratic algebras. **90a:17002**
Widmer, Lamarr see Kleinfeld, Erwin, **90k:17068**
Zelmanov, E. I. On the nilpotency of nil algebras. **90b:17001**

17D10 Mal'cev (Mal'tsev) rings

- Elduque, Alberto. Lattice isomorphisms of Malcev algebras. 90k:17067
 — On semisimple Mal'cev algebras. 90b:17045
 Filippov, V. T. A T ideal of a Mal'tsev algebra. 90b:17046
 Stitzinger, Ernest L. The structure algebras of Mal'cev algebras. 90d:17029
- Items with secondary classifications in 17D10
- Osipov, E. P. The central extension of Kac-Moody-Mal'cev algebras. 90j:17046
 — Algebras of Kac-Moody-Mal'cev type on genus- g Riemann surfaces. 90h:17032

17D15 Right alternative rings

- Dashdorz, Ts. Identities of simple right alternative algebras. (Russian) 90e:17040
- Items with secondary classifications in 17D15
- Hentzel, I. R. (with Jacobs, D. P.) Jordan and right alternative counterexamples. 90c:17001
 Jacobs, D. P. see Hentzel, I. R., 90c:17001

17D20 (γ, δ) -rings

- Ng, Seong Nam. Nil $(1, 1)$ algebras of bounded indices. 90e:17041

17D25 Lie admissible algebras

- Myung, Hyo Chul (with Sagie, Arthur A.) On Lie-admissible mutations of associative algebras. 90c:17049
 Sagie, Arthur A. see Myung, Hyo Chul, 90c:17049
- Items with secondary classifications in 17D25
- Michor, Peter W. (with Ruppert, Wolfgang A. F.; Wegenkittl, K.) On a construction connecting Lie algebras with general algebras. 90j:17004
 Ruppert, Wolfgang A. F. see Michor, Peter W.; et al., 90j:17004
 Wegenkittl, K. see Michor, Peter W.; et al., 90j:17004

17D92 Genetic algebras

- Alcalde, M. T. (with Burguño, C.; Labra, A.; Micali, A.) Automorphisms and derivations of a Bernstein algebra over k , $\text{char } k = 2$. (Spanish summary) 90j:17054
 — (with Baeza, Rodolfo; Burguño, C.) Autour des algèbres de Bernstein. [Concerning Bernstein algebras] 90j:17055
 — (with Burguño, C.; Labra, A.; Micali, A.) Sur les algèbres de Bernstein. [On Bernstein algebras] 90b:17047
 Baeza, Rodolfo see Alcalde, M. T.; et al., 90j:17055
 Burguño, C. see Alcalde, M. T.; et al., 90b:17047; 90j:17054 and 90j:17055
 Costa, Roberto C. F. A note on Bernstein algebras. 90b:17049
 — Principal train algebras of rank 3 and dimension ≤ 5 . 90m:17043
 Holgate, Philip. Some train algebras that are special triangular. 90m:17044
 Labra, A. see Alcalde, M. T.; et al., 90b:17047 and 90j:17054
 Mallol, Cristian (with Micali, A.) Sur les algèbres de Bernstein. II. [On Bernstein algebras. II] 90d:17030
 Micali, A. see Alcalde, M. T.; et al., 90b:17047; Mallol, Cristian, 90d:17030 and Alcalde, M. T.; et al., 90j:17054
 Ouattara, Moussa. \star Algèbres de Jordan et algèbres génétiques. (French) [Jordan algebras and genetic algebras] 90a:17022
 Wörz-Busekros, A. Further remarks on Bernstein algebras. 90b:17048

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- Algèbres génétiques \star Algèbres génétiques. (French) [Genetic algebras] 90m:17045
 Colloquium:
 Genetic Algebras \star Algèbres génétiques. (French) [Genetic algebras] 90m:17045
 Genetic algebras \star Algèbres génétiques. (French) [Genetic algebras] 90m:17045
 Montpellier \star Algèbres génétiques. (French) [Genetic algebras] 90m:17045

Items with secondary classifications in 17D92

- Durand-Alegría, A. I. (with López-Sánchez, J.; Pérez de Vargas, A.) Zygotic algebra for two-linked loci with sexually different recombination and mutation rates. 90j:92013
 Hentzel, I. R. (with Peresi, L. A.) Semi-prime Bernstein algebras. 90m:17009
 López-Sánchez, J. see Durand-Alegría, A. I.; et al., 90j:92013
 Peresi, L. A. see Hentzel, I. R., 90m:17009
 Pérez de Vargas, A. see Durand-Alegría, A. I.; et al., 90j:92013

17D99 None of the above, but in this section

- Ganesan, N. see Tamizh Chelvan, T., 90j:17057
 Kleinfeld, Erwin (with Widmer, Lamarr) Rings satisfying $(x, y, z) = (y, z, x)$. 90k:17068
 Manley, P. L. A hybrid algebra with duality. 90k:17069
 Tamizh Chelvan, T. Tertiary decomposition in nonassociative near-rings. 90j:17056
 — (with Ganesan, N.) On finite nonassociative near-rings. 90j:17057
 Widmer, Lamarr see Kleinfeld, Erwin, 90k:17068
- Items with secondary classifications in 17D99
- Akiva, M. A. (with Shelekhov, A. M.) On subwebs of 3-webs and subalgebras of local W_4 -algebras. 90d:53028
 Mikheev, P. O. (with Sabinin, L. V.) Smooth quasigroups and geometry. (Russian) 90b:53063
 Render, Hermann. An order-theoretic approach to involutive algebras. 90c:46068
 Sabinin, L. V. see Mikheev, P. O., 90b:53063
 Schwarz, Thomas. Tangibility of homogeneous convex cones. 90a:52006
 Shelekhov, A. M. see Akiva, M. A., 90d:53028

18-XX Category theory, homological algebra**18-01 Elementary exposition; textbooks**

- Items with secondary classifications in 18-01
- Hilton, Peter John (with Wu, Yel Chiang) \star A course in modern algebra. 90j:00003
 (Reid, Miles) see Shafarevich, I. R., 90k:00010
 Shafarevich, I. R. \star Noțiunile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] 90k:00009
 — \star Algebra. I. 90k:00010
 (Spircu, T.) see Shafarevich, I. R., 90k:00009
 Wu, Yel Chiang see Hilton, Peter John, 90j:00003

18-02 Advanced exposition (research surveys, monographs, etc.)

- Items with secondary classifications in 18-02
- Coppey, L. (with Lair, C.) Leçons de théorie des esquisses. II. [Lectures on the theory of sketches. II] 90b:18001
 Cordier, J.-M. (with Porter, Timothy) \star Shape theory. 90f:54030
 Dodson, C. T. J. \star Categories, bundles and spacetime topology. 90c:53164
 Lair, C. see Coppey, L., 90b:18001
 Porter, Timothy see Cordier, J.-M., 90f:54030

18-03 Historical (must also be assigned at least one classification number from Section 01)

- Items with secondary classifications in 18-03
- Mac Lane, Saunders. Concepts and categories in perspective. 90k:01019a
 — Addendum: "Concepts and categories in perspective". 90k:01019b

18-04 Explicit machine computation and programs (not the theory of computation or programming)

- Items with secondary classifications in 18-04
- Bruner, Robert R. Calculation of large Ext modules. 90g:18010

18-06 Proceedings, conferences, etc.

- (Adámek, Jiří) see Categorical topology and its relation to analysis, algebra and combinatorics, 90m:18002
 (Jardine, J. F.) see Algebraic K -theory: connections with geometry and topology, 90m:18001
 (Kuku, A. O.) see Proceedings: Research Symposium on K -Theory and its Applications, 90a:18001
 (Mac Lane, Saunders) see Categorical topology and its relation to analysis, algebra and combinatorics, 90m:18002
 (Snaitch, Victor) see Algebraic K -theory: connections with geometry and topology, 90m:18001
 (Weibel, Charles A.) see Proceedings: Research Symposium on K -Theory and its Applications, 90a:18001

Items listed otherwise than by author

- Algebraic K -theory: connections with geometry and topology \star Algebraic K -theory: connections with geometry and topology. 90m:18001
 Categorical topology and its relation to analysis, algebra and combinatorics \star Categorical topology and its relation to analysis, algebra and combinatorics. 90m:18002

Conference:

- Categorical Topology and its Relation to Analysis, Algebra and Combinatorics
 \star Categorical topology and its relation to analysis, algebra and combinatorics. 90m:18002

- Ibadan \star Proceedings of Research Symposium on K -Theory and its Applications. 90a:18001

- Lake Louise, AB \star Algebraic K -theory: connections with geometry and topology. 90m:18001

NATO Advanced Study Institute:

- Algebraic K -Theory: Connections with Geometry and Topology \star Algebraic K -theory: connections with geometry and topology. 90m:18001

- Prague \star Categorical topology and its relation to analysis, algebra and combinatorics. 90m:18002

Proceedings:

- Research Symposium on K -Theory and its Applications \star Proceedings of Research Symposium on K -Theory and its Applications. 90a:18001

Symposium:

- K -Theory and its Applications \star Proceedings of Research Symposium on K -Theory and its Applications. 90a:18001

Items with secondary classifications in 18-06

- (Borceux, F.) see Proceedings: Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme, 90b:00020
 (Dybjer, P.) see Category theory and computer science, 90m:68002
 (Ehrig, Hartmut) see Categorical methods in computer science, 90k:68003
 (Herrlich, Horst) see Categorical methods in computer science, 90k:68003
 (Kreowski, Hans-Jörg) see Categorical methods in computer science, 90k:68003
 (Lavendhomme, R.) see Proceedings: Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme, 90b:00020
 (Pitt, D. H.) see Category theory and computer science, 90m:68002
 (Pitts, Andrew M.) see Category theory and computer science, 90m:68002
 (Poigné, A.) see Category theory and computer science, 90m:68002

- (Preuss, Gerhard) *see* *Categorical methods in computer science*, 90k:68003
 (Rydeheard, David E.) *see* *Category theory and computer science*, 90m:68002

Items listed otherwise than by author

- Bertin ★ *Categorical methods in computer science*. 90k:68003
Categorical methods in computer science ★ *Categorical methods in computer science*. 90k:68003
Category theory and computer science ★ *Category theory and computer science*. 90m:68002
 Colloquium:
Category Theory ★ *Proceedings of the Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme*. 90h:00020
 Conference:
Category Theory and Computer Science ★ *Category theory and computer science*. 90m:68002
Lecture Notes in Computer Science ★ *Categorical methods in computer science*. 90k:68003
 — ★ *Category theory and computer science*. 90m:68002
 Louvain-la-Neuve ★ *Proceedings of the Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme*. 90h:00020
 Manchester ★ *Category theory and computer science*. 90m:68002
 Proceedings:
Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme ★ *Proceedings of the Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme*. 90h:00020
 Workshop:
Categorical Methods in Computer Science with Aspects from Topology ★ *Categorical methods in computer science*. 90k:68003
 Data Type ★ *Categorical methods in computer science*. 90k:68003

18Axx General theory of categories and functors

18A05 Definitions, generalizations

- Rosolini, G. Representation theorems for p -categories. 90e:18001
 Tulczyjew, W. M. (with Zakrzewski, Stanisław) Partial categories. (Italian summary) 90h:18001a
 — (with Zakrzewski, Stanisław) Composition classes and partial categories. (Italian summary) 90h:18001b
 Zakrzewski, Stanisław *see* Tulczyjew, W. M., 90h:18001a and 90h:18001b

Items with secondary classifications in 18A05

- Lausch, Hans (with Przeworska-Rolewicz, Danuta) Pseudocategories, para-algebras and linear operators. 90h:47003
 Przeworska-Rolewicz, Danuta *see* Lausch, Hans, 90h:47003

18A10 Graphs, diagram schemes, precategories, neocategories [see also 20Lxx]

- Coppey, L. (with Lair, C.) Leçons de théorie des esquisses. II. [Lectures on the theory of sketches. II] 90h:18001
 Guitart, René On the geometry of computations. II. 90g:18001
 Lair, C. *see* Coppey, L., 90h:18001

18A15 Foundations, relations to logic and deductive systems [see also 03-XX]

- Ageron, Pierre Sémantique catégorique des types: comprendre le système F. (English summary) [The category-theoretic semantics of types: understanding the system F] 90g:18002

Items with secondary classifications in 18A15

- Ghilardi, S. (with Meloni, G. C.) Modal and tense predicate logic: models in presheaves and categorical conceptualization. 90h:03019
 Meloni, G. C. *see* Ghilardi, S., 90h:03019
 Pedrosa, Renato H. de L. (with Sette, Antonio-M. A.) A representation theorem for languages with generalized quantifiers through back-and-forth methods. 90e:03044
 Sato, Hiroyuki E-ccc: between ccc and topos. 90e:68068
 Seely, R. A. G. Linear logic, ω -autonomous categories and cofree coalgebras. 90h:03052
 Sette, Antonio-M. A. *see* Pedrosa, Renato H. de L., 90e:03044
 Vanuilles, Jacqueline Cut-elimination and interpolation of Ω -logic. 90h:03055

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)

- Burmeister, Peter (with Wojdyło, Bolesław) A category theoretical background for homomorphism theorems. 90m:18003
 Wojdyło, Bolesław *see* Burmeister, Peter, 90m:18003
 Yetter, David N. Corrections to: "On right adjoints to exponential functors" [J. Pure Appl. Algebra 45 (1987), no. 3, 287–304; MR 88f:18002]. 90e:18001

Items with secondary classifications in 18A20

- Lord, Harriet Lazowick Functionally Hausdorff spaces. (French summary) 90m:54015
 Puytjens, R. Some aspects of generalized invertibility. 90k:47004
 Schwab, Emil Über einen durch reguläre Einheiten definierten Funktor im Falle der inversen Kategorien. [On a functor, defined by regular units, in the case of inverse categories] 90h:18004

18A22 Special properties of functors (faithful, full, etc.)

- Hébert, Michel On the fullness of certain functors. 90j:18001

- Verschoren, A. The sheaf representation of a Grothendieck category. 90h:18002
 Yu, Yong Xi¹ On the bijective half-functors. 90j:18002

Items with secondary classifications in 18A22

- Dzhibladze, M. A. Geometric morphisms and indexed topoi. (Russian. English summary) 90m:18005
 Kosłowski, Jürgen Topological hulls revisited. 90e:18005
 Prószynski, Andrzej Equationally definable functors and polynomial mappings. 90e:13007
 Savchenko, A. G. A criterion for isomorphism of the finit.-power functor and the power functor. (Russian) 90m:18008

18A25 Functor categories, comma categories

Items with secondary classifications in 18A25

- Power, A. J. A general coherence result. 90k:18007

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Items with secondary classifications in 18A30

- Crstici, Borislav (with Dăianu, Dan) Projective limits in a module a -category. (Romanian summary) 90h:16063
 Dăianu, Dan *see* Crstici, Borislav, 90h:16063
 Fernández Vilaboa, J. M. (with López López, M. P.) Cleft comodule triples in a symmetric closed category. 90e:16010
 Jackowski, S. (with McClure, James E.) Homotopy approximations for classifying spaces of compact Lie groups. 90m:55012
 López López, M. P. *see* Fernández Vilaboa, J. M., 90e:16010
 McClure, James E. *see* Jackowski, S., 90m:55012
 Rosolini, G. Representation theorems for p -categories. 90e:18001
 Singer, Boris Approach systems. 90f:28011

18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

- Wells, Charles F. Wreath product decomposition of categories. I, II. 90d:18001

Items with secondary classifications in 18A32

- Rosolini, G. Representation theorems for p -categories. 90e:18001

18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions

- Tholen, Walter (with Tozzi, Anna) Completions of categories and initial completions. (French summary) 90j:18003
 Tozzi, Anna *see* Tholen, Walter, 90j:18003

Items with secondary classifications in 18A35

- Ageron, Pierre Les catégories localement (multi)présentables comme domaines de Scott. [Locally (multi)presentable categories as Scott domains] 90k:18008
 Dăianu, Dan On the completeness of group a -category. 90e:20047
 Day, Brian J. (with Street, Ross) Localisation of locally presentable categories. 90h:18012
 Girard, Jean-Yves Normal functors, power series and λ -calculus. 90e:03015
 Rosický, J. (with Tholen, Walter) Orthogonal and prereflective subcategories. (French summary) 90h:18003
 Street, Ross *see* Day, Brian J., 90h:18012
 Tholen, Walter *see* Rosický, J., 90h:18003

18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)

- Adámek, Jiří (with Rosický, J.; Trnková, Věra) Are all limit-closed subcategories of locally presentable categories reflective? 90h:18002
 Choban, M. M. General conditions for the existence of free objects. (Russian. English summary) 90m:18004
 Delzans, Aristide A generalization of Artin-Mazur completion and rigid completion functors in homotopy theory. 90j:18004
 Rosický, J. (with Tholen, Walter) Orthogonal and prereflective subcategories. (French summary) 90h:18003
 — *see also* Adámek, Jiří; et al., 90h:18002
 Tholen, Walter *see* Rosický, J., 90h:18003
 Trnková, Věra *see* Adámek, Jiří; et al., 90h:18002

Items with secondary classifications in 18A40

- Adámek, Jiří *see* Trnková, Věra; et al., 90h:18004
 Agudé, J. Computing Lannes T functor. 90h:55026
 Benkő, I. Exactness of the adjunction functor in the category of locally convex spaces. (see 90j:00021)
 Botnaru, D. V. Relative torsion theories of the category of separated locally convex spaces. (Russian) 90h:46132
 Cordier, J.-M. (with Porter, Timothy) ★ Shape theory. 90f:54030
 Day, Brian J. (with Street, Ross) Localisation of locally presentable categories. 90h:18012
 Hulek, M. *see* Trnková, Věra, 90d:54074

- Kashu, A. I. Fundamental functors of categories of modules, and lattices of submodules. I. (Russian) 90f:16041
- Lord, Harriet Lazowick Functionally Hausdorff spaces. (French summary) 90m:54015
- Lowen, Robert (with Srivastava, Arun Kumar²) FTS₀: the epi-reflective hull of the Sierpiński object in FTS. 90d:54015
- MacDonald, John L. (with Stone, Arthur L.) Soft adjunction between 2-categories. 90i:18004
- Porter, Timothy see Cordier, J.-M., 90f:54030
- Rosický, J. see Trnková, Věra; et al., 90e:18004
- Srivastava, Arun Kumar² see Lowen, Robert, 90d:54015
- Stone, Arthur L. see MacDonald, John L., 90i:18004
- Stramaccia, Luciano Homotopy preserving functors. (French summary) 90d:55011
- Some remarks on preservation of topological products. 90h:54012
- Street, Ross see Day, Brian J., 90h:18012
- Trnková, Věra (with Hulek, M.) Nonconstant continuous maps of modifications of topological spaces. 90d:54074
- (with Adámek, Jiří; Rosický, J.) Topological reflections revisited. 90e:18004
- Yetter, David N. Corrections to: "On right adjoints to exponential functors" [J. Pure Appl. Algebra 45 (1987), no. 3, 287–304; MR 88f:18002]. 90c:18001

18A99 None of the above, but in this section

- Jarzembski, Grzegorz Finitary fibrations. (French summary) 90g:18003
- Schwab, E. Beispiele von Baer *-Kategorien mit verallgemeinerten Inversen. (Romanian summary) [Examples of Baer *-categories with generalized inverses] 90i:18001
- Zarichnyi, M. M. A category of normal functors. (Ukrainian. Russian summary) (Not in MR)

Items with secondary classifications in 18A99

- Diers, Yves Codisjunctors and singular epimorphisms in the category of commutative rings. 90a:14003
- Geanău, M. Polyfoncteurs. II. (Romanian summary) [Polyfunctors. II] (Not in MR)
- Steiner, Richard Multiple semidirect products of associative systems. 90k:20111
- Tabor, József A Pexider equation on a small category. (Polish summary) 90j:39012

18Bxx Special categories

18B10 Category of relations, additive relations

- Alagü, Mara On categories of relations. 90k:18001
- Rebecic, M. The section of a binary nonhomogeneous relation in a category relative to a subobject. I. (Romanian summary) 90a:18002a
- The section of a binary nonhomogeneous relation in a category relative to a subobject. II. (Romanian summary) 90a:18002b
- Schwab, Emil Über einen durch reguläre Einheiten definierten Funktor im Falle der inversen Kategorien. [On a functor, defined by regular units, in the case of inverse categories] 90h:18004

Items with secondary classifications in 18B10

- Adámek, Jiří (with Rosický, J.; Trnková, Věra) Are all limit-closed subcategories of locally presentable categories reflective? 90b:18002
- Rosický, J. see Adámek, Jiří; et al., 90b:18002
- Trnková, Věra see Adámek, Jiří; et al., 90b:18002

18B15 Imbedding theorems, universal categories [see also 18E20]

- Alderton, I. W. How many initial completions does a monotopological category have? 90i:18002
- Barr, Michael Embedding of accessible regular categories. 90g:18004
- Trnková, Věra Simultaneous representations in categories. 90f:18001

Items with secondary classifications in 18B15

- Adams, M. E. (with Koubek, V.; Sichler, J.) Isomorphism universal varieties of Heyting algebras. 90i:06015
- Alderton, I. W. Function spaces in fuzzy topology. 90i:54013
- Herrlich, Horst Hereditary topological constructs. 90c:54008
- Koubek, V. see Adams, M. E.; et al., 90i:06015
- Rosolini, G. Representation theorems for p -categories. 90e:18001
- Sichler, J. see Adams, M. E.; et al., 90i:06015

18B20 Categories of machines, automata, operative categories [see also 03D05, 68Qxx]

- Hofer, Gerhard Reachability in machines. 90j:18005

Items with secondary classifications in 18B20

- Bloom, Stephen L. (with Ěsik, Z.) Equational logic of circular data type specification. 90i:68066
- Dididze, Ts. E. Hereditary radical classes of monoidal Γ -automata. (Russian) 90f:68121
- Ěsik, Z. see Bloom, Stephen L., 90i:68066
- Lex, Wilfried Remarks on acts and the lattice of their torsion theories. 90e:08006
- Manes, Ernie Assertion categories. 90f:68110
- Mulry, Philip S. Kan extensions in effective semantics. 90e:68067
- Rhodes, John On the Cantor-Dedekind property of the Tilson order on categories and graphs. 90b:20056

18B25 Topoi [see also 03G30]

- Bell, J. L. ★ Toposes and local set theories. 90e:18002

- Borceux, F. Examples of quantales in topos theory. 90a:18003
- Bunge, Marta An application of descent to a classification theorem for toposes. 90k:18002
- Dupont, Pascal Projectivity of sheaves on a locale and of free modules. 90k:18003
- Dzhibladze, M. A. Geometric morphisms and indexed topoi. (Russian. English summary) 90m:18005
- Español, L. The spectrum lattice of Baer rings and polynomials. 90c:18002
- Hyland, J. M. E. (with Robinson, Edmund; Rosolini, G.) The discrete objects in the effective topos. 90k:18004
- Johnstone, Peter T. A topos-theorist looks at dilators. 90f:18002
- (with Moerdijk, I.) Local maps of toposes. 90a:18004
- Joyal, A. (with Moerdijk, I.) Toposes are cohomologically equivalent to spaces. 90m:18006
- Kennison, John F. What is the fundamental group? 90h:18003
- Kock, Anders (with Schmidt, Jörn) A coherent theory of sites. 90m:18007
- Lawvere, F. William Qualitative distinctions between some toposes of generalized graphs. 90g:18005
- Loiseau, Bruno (with Mawanda, Mbila-Mambu) On natural number objects, finiteness and Kripke-Platek models in toposes. 90k:18005
- MacCaull, W. A. Hilbert's Nullstellensatz revisited. 90c:18003
- Mawanda, Mbila-Mambu see Loiseau, Bruno, 90k:18005
- Moerdijk, I. The classifying topos of a continuous groupoid. I. 90a:18005
- see also Johnstone, Peter T., 90a:18004 and Joyal, A., 90m:18006
- Nishimura, Hirokazu Heyting valued considerations on some fundamental existence theorems in modern analysis. 90e:18003
- Paré, R. (with Rosebrugh, R.; Wood, R. J.) Idempotents in bicategories. 90d:18002
- Phoa, Wesley Relative computability in the effective topos. 90h:18004
- Robinson, Edmund see Hyland, J. M. E.; et al., 90k:18004
- Rosebrugh, R. see Paré, R.; et al., 90d:18002
- Rosolini, G. see Hyland, J. M. E.; et al., 90k:18004
- Schmidt, Jörn see Kock, Anders, 90m:18007
- Wood, R. J. see Paré, R.; et al., 90d:18002

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- Al-Ezeh, H. Pure ideals in commutative reduced Gelfand rings with unity. 90h:13001
- Bhutan, Kiran R. Abelian groups in a topos of sheaves: torsion and essential extensions. 90a:18008
- Blass, Andreas Geometric invariance of existential fixed-point logic. 90g:03066
- (with Seedorf, Andre) Freyd's models for the independence of the axiom of choice. 90d:03097
- Borceux, F. (with Pedicchio, Maria Cristina) Prime elements in a localic topos. 90g:06021
- (with Pedicchio, Maria Cristina) On primeness and maximality of filters. (French summary) 90g:06023
- Bruno, Oscar P. Three problems concerning ideals of differentiable functions. 90c:58025
- Bunge, Marta (with Gago Couso, Felipe) Synthetic aspects of C^∞ -mappings. II. Mather's theorem for infinitesimally represented germs. 90b:58022
- Curien, P.-L. (with Obdulowicz, A.) Partiality, Cartesian closedness, and toposes. 90k:18010b
- Dupont, Pascal (with Loiseau, Bruno) A logical glance at sheaves. 90m:03108
- Gago Couso, Felipe see Bunge, Marta, 90b:58022
- Hirschowitz, André Cohérence et dualité sur le gros site de Zariski. [Coherence and duality on the big Zariski site] 90k:14012
- Hyland, J. M. E. (with Pitts, Andrew M.) The theory of constructions: categorical semantics and topos-theoretic models. 90h:03023
- Johnstone, Peter T. A constructive "closed subgroup theorem" for localic groups and groupoids. (French summary) 90e:22006
- Lafaye de Micheaux, N. see Preller, A., 90i:03072
- Lavendhomme, R. (with Lucas, Thierry Eugène) Toposes and intuitionistic theories of types. 90d:03138
- Loiseau, Bruno see Dupont, Pascal, 90m:03108
- Lucas, Thierry Eugène see Lavendhomme, R., 90d:03138
- MacCaull, W. A. On the validity of Hilbert's Nullstellensatz, Artin's theorem, and related results in Grothendieck toposes. 90a:03109
- Makkai, Michael Strong conceptual completeness for first-order logic. 90b:03096
- Moerdijk, I. Prodiscrete groups and Galois toposes. 90h:18014
- Obdulowicz, A. see Curien, P.-L., 90b:18010b
- Pedicchio, Maria Cristina see Borceux, F., 90g:06021 and 90g:06023
- Pitts, Andrew M. see Hyland, J. M. E., 90h:03023
- Preller, A. (with Lafaye de Micheaux, N.) Intensional equality in categories with structure and coherence problems. 90i:03072
- Robinson, Edmund (with Rosolini, G.) Categories of partial maps. 90b:18010a
- Rosolini, G. see Robinson, Edmund, 90b:18010a
- Seedorf, Andre see Blass, Andreas, 90d:03097
- Toth, Herbert Categorical properties of f -set theory. 90m:03096
- Vickers, Steven A fixpoint construction of the p -adic domain. 90e:68070
- Yetter, David N. Corrections to: "On right adjoints to exponential functors" [J. Pure Appl. Algebra 45 (1987), no. 3, 287–304; MR 88f:18002]. 90c:18001

18B30 Categories of topological spaces and continuous mappings [see also 54-XX]

- Adámek, Jiří see Trnková, Věra; et al., 90e:18004
- Coulon, Jean-Louis see Coulon, Josette, 90h:18005
- Coulon, Josette (with Coulon, Jean-Louis) The spectrum of a separated presheaf and the relation between totally fuzzy subsets and fuzzy subsets; application to fuzzy topology. 90h:18005
- Rosický, J. see Trnková, Věra; et al., 90e:18004
- Savchenko, A. G. A criterion for isomorphism of the finite-power functor and the power functor. (Russian) 90m:18006
- Trnková, Věra (with Adámek, Jiří; Rosický, J.) Topological reflections revisited. 90e:18004

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- Alderton, I. W. Power-objects in monotopological categories. 90b:18006
 Banaschewski, B. (with Pultr, A.) Cauchy points of metric locales. 90b:18006
 Benkő, I. Exactness of the adjunction functor in the category of locally convex spaces. (see 90j:00021)
 Brown, Ronald (with Higgins, P. J.) Crossed complexes and chain complexes with operators. 90j:55030
 Critici, Borislav (with Dăianu, Dan) The locally convex space category with approximation. 90d:46101
 Dăianu, Dan see Critici, Borislav, 90d:46101
 Herrlich, Horst Hereditary topological constructs. 90c:54008
 — Sequential structures induced by metropies. 90d:54058
 Higgins, P. J. see Brown, Ronald, 90j:55030
 Hulek, M. see Trnková, Věra, 90d:54074
 Hyland, J. M. E. (with Robinson, Edmund; Rosolini, G.) The discrete objects in the effective topos. 90b:18004
 Kříž, I. (with Pultr, A.) Peculiar behavior of connected locales. (French summary) 90c:54043
 Lord, Harriet Lazowick Functionally Hausdorff spaces. (French summary) 90m:54015
 Lowen, Robert (with Srivastava, Arun Kumar²) FTS₀: the epi-reflective hull of the Sierpiński object in FTS. 90d:54015
 — (with Wuyts, P.; Lowen-Colebunders, Eva) On the reflectiveness and coreflectiveness of subcategories of FTS. 90i:54015
 — Approach spaces: a common supercategory of TOP and MET. 90i:54025
 — see also Wuyts, P.; et al., 90a:54013
 Lowen-Colebunders, Eva see Wuyts, P.; et al., 90a:54013 and Lowen, Robert; et al., 90i:54015
 Neville, Charles W. A Loomis-Sikorski theorem for locales. 90g:06016
 Paseka, Jan (with Šmarda, Bohumil) On some notions related to compactness for locales. 90d:54057
 Pultr, A. see Kříž, I., 90c:54043 and Banaschewski, B., 90b:18006
 Robinson, Edmund see Hyland, J. M. E.; et al., 90b:18004
 Rosolini, G. see Hyland, J. M. E.; et al., 90b:18004
 Shapiro, L. B. A category characteristic of a hyperspace. 90a:54025
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 Stranaccia, Luciano Some remarks on preservation of topological products. 90b:54012
 Trnková, Věra (with Hulek, M.) Nonconstant continuous maps of modifications of topological spaces. 90d:54074
 Weiss, Wolfgang Uniform spaces can be represented by completely distributive lattices. 90d:54059
 Woods, R. Grant Covering properties and coreflective subcategories. 90m:54016
 Wuyts, P. (with Lowen, Robert; Lowen-Colebunders, Eva) Reflectors and coreflectors in the category of fuzzy topological spaces. 90a:54013
 — see also Lowen, Robert; et al., 90i:54015

18B35 Preorders, orders and lattices (viewed as categories) [see also 06-XX]

- Banaschewski, B. (with Pultr, A.) Cauchy points of metric locales. 90b:18006
 Irmator, A. A. (with Trofimov, V. A.) Homology of complete Brouwer lattices. 90j:18006
 Pultr, A. Diameters in locales: how bad they can be. 90b:18005
 — see also Banaschewski, B., 90b:18006
 Trofimov, V. A. see Irmator, A. A., 90j:18006

Items with secondary classifications in 18B35

- Niefield, Susan B. see Rosenthal, Kimmo L., 90g:06017
 Rosenthal, Kimmo L. (with Niefield, Susan B.) Connections between ideal theory and the theory of locales. 90g:06017
 Thomason, S. K. Free construction of time from events. 90b:03010

18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [see also 20Axx, 20Lxx, 20Mxx]

- Brown, Ronald Symmetry, groupoids and higher-dimensional analogues. 90g:18006
 Nguyễn Tiến Quang Coherence in Ann-categories. (Vietnamese. French summary) 90b:18006

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- Fay, Temple H. (with Walls, Gary L.) Compact nilpotent groups. 90j:22001
 Kunjjan, Alex On equivariant sheaf cohomology and elementary C^* -bundles. 90b:46102
 Straßburg, Howard Semigroups and languages of dot-depth two. 90j:20139
 Tilson, Bret Categories as algebra: an essential ingredient in the theory of monoids. 90c:20061
 Walls, Gary L. see Fay, Temple H., 90j:22001

18B99 None of the above, but in this section

- Dekor, Deho V. Existence de structures quotient. [Existence of quotient structures] 90c:18004
 Grandis, Marco Distributive homological algebra: universal models for the exact system and the exact couple. 90f:18003
 Hur, Kul A note on the category $\text{Set}(H)$. 90a:18006
 Hyland, J. M. E. A small complete category. 90a:18007
 Kock, Anders A Godement theorem for locales. 90c:18005
 Items with secondary classifications in 18B99
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 Butler, M. C. R. Some almost split sequences in torsionfree abelian group theory. 90f:20079
 Cheremack, Paul Closed subspaces of the sequence space. 90j:14005

- Cockett, J. R. B. On the decidability of objects in a topos. 90f:03101
 Dăianu, Dan Concrete α -categories. 90c:18007
 Diers, Yves Locally Hilbert categories. 90c:18009
 (Gray, John W.) see Rydeheard, David E., 90b:68108
 Hébert, Michel Characterizations of axiomatic categories of models canonically isomorphic to (quasi-)varieties. 90d:03064
 Hrbáček, Karel Convex powerdomains. II. 90g:68084
 Johnstone, Peter T. (with Sun, Shu Hao) Weak products and Hausdorff locales. 90a:54026
 Kusraev, A. G. ★ Элементы булевого анализа. (Russian) [Elements of Boolean-valued analysis] 90k:03038
 Nasseopoulos, George F. Duality and functional representations of certain complete algebras. (Greek summary) 90b:46133
 Pedrosa, Renato H. de L. (with Sette, Antonio-M. A.) A representation theorem for languages with generalized quantifiers through back-and-forth methods. 90c:03044
 Pultr, A. Categories of diametric frames. 90a:54014
 Román, Leopoldo Ultradistributive categories. 90d:03139
 Rydeheard, David E. (with Burstall, Rod M.) ★ Computational category theory. 90b:68108
 Semadeni, Zbigniew On the category of compact convex sets and related categories. 90b:46134
 Sette, Antonio-M. A. see Pedrosa, Renato H. de L., 90c:03044
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 Takahashi, Michihito Structures of semimodules. 90f:20102
 Thomason, S. K. Free construction of time from events. 90b:03010
 Vickers, Steven ★ Topology via logic. 90j:03110
 Wiverger, Antoni Knowledge representation systems, logical kits, and contexts. (Russian summary) 90i:68083

18Cxx Categories and algebraic theories

18C05 Equational categories [see also 03-XX, 08C05]

Items with secondary classifications in 18C05

- Bloom, Stephen L. (with Ésik, Z.) Varieties of iteration theories. 90b:68074
 Ésik, Z. see Bloom, Stephen L., 90b:68074

18C10 Theories (e.g. algebraic theories), structure, and semantics [see also 03-XX]

- Barr, Michael Models of Horn theories. 90b:18006
 Guitart, René L'unité de la théorie des modèles et de l'algèbre homologique. (English summary) [The unity of model theory and homological algebra] 90m:18009
 Jarzembki, Grzegorz Lattices of free extensions in categories of partially algebraic structures. 90c:18006
 Lair, C. Trames et sémantiques catégoriques des systèmes de trames. [Plats and categorical semantics of systems of plats] 90c:18007
 — Diagrammes structures de modèles. [Structure diagrams of models] 90c:18008

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- Badoel, Eric Algebraically closed theories. (see 90m:68009)
 Baranga, Andrei About recursive domain equations. 90c:68064
 Barr, Michael Embedding of accessible regular categories. 90g:18004
 Coppey, L. (with Lair, C.) Leçons de théorie des esquisses. II. [Lectures on the theory of sketches. II] 90b:18001
 Ghilardi, S. (with Meloni, G. C.) Modal and tense predicate logic: models in presheaves and categorical conceptualization. 90b:03019
 Jay, C. Barry Languages for monoidal categories. 90f:18006
 Lair, C. see Coppey, L., 90b:18001
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 Posregga, Michael ★ Algebraic model-theories: a contribution to the generalization of the notion "logical system". 90b:68077
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18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

- Adámek, Jiří (with Herrlich, Horst; Tholen, Walter) Monadic decompositions. 90b:18003
 Fox, Thomas F. Algebraic deformations and bicohomology. 90b:18007
 Gähler, Werner Monads and convergence. 90b:18007
 Herrlich, Horst see Adámek, Jiří; et al., 90b:18003
 Tholen, Walter see Adámek, Jiří; et al., 90b:18003

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- Adámek, Jiří (with Herrlich, Horst; Rosický, J.) Essentially equational categories. (French summary) 90b:18008
 Fernández Vilaboa, J. M. (with López López, M. P.) Cleft comodule triples in a symmetric closed category. 90b:16010
 Herrlich, Horst see Adámek, Jiří; et al., 90b:18008
 López López, M. P. see Fernández Vilaboa, J. M., 90b:16010
 Novikov, B. V. Partial cohomology of semigroups and its applications. 90a:20135
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18C20 Algebras and Kleisli categories associated with monads

Items with secondary classifications in 18C20

- Adámek, Jiří (with Herrlich, Horst; Tholen, Walter) Monadic decompositions. 90b:18003

Cordier, J.-M. (with Porter, Timothy) ★ Shape theory. 90f:54030
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18C99 None of the above, but in this section

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 Lair, C. Lax-co-limits structurées. [Structured lax colimits] 90h:18008
 Rosický, J. see Adámek, Jiří et al., 90b:18008

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Boshoyi, Hilaire Duality of endomorphisms of a universal algebra. (Russian) 90d:08010
 Guitart, René On the geometry of computations. II. 90g:18001

18Dxx Categories with structure

18D05 Double categories, 2-categories, bicategories, hypercategories

Geanău, M. Polyfoncteurs. II. (Romanian summary) [Polyfunctors. II] (Not in MR)
 Golasinski, Marek ω -Cat Yoneda lemma. 90m:18010
 Kelly, G. M. Elementary observations on 2-categorical limits. 90f:18004
 MacDonald, John L. (with Stone, Arthur L.) Soft adjunction between 2-categories. 90f:18004
 Power, A. J. Coherence for bicategories with finite bilimits. I. 90f:18005
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 Tapecharov, Vladimir V. Structures algébriques n -aires généralisant les catégories. [n -ary algebraic structures generalizing categories] 90c:18005

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 Duskin, John W. The Azumaya complex of a commutative ring. 90c:13003
 Paré, R. (with Rosebrugh, R.; Wood, R. J.) Idempotents in bicategories. 90d:18002
 Rosebrugh, R. see Paré, R.; et al., 90d:18002
 Wood, R. J. see Paré, R.; et al., 90d:18002

18D10 Monoidal categories (= multiplicative categories) [see also 19D23]

Jay, C. Barry Languages for monoidal categories. 90f:18006
 Johnson, S. R. Monoidal Morita equivalence. 90g:18007

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Elmendorf, A. D. The Grassmannian geometry of spectra. 90c:55007
 Weronowicz, S. L. Tannaka-Krein duality for compact matrix pseudogroups. Twisted $SU(N)$ groups. 90e:22033

18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)

Ageron, Pierre Les catégories localement (multi)présentables comme domaines de Scott. [Locally (multi)presentable categories as Scott domains] 90k:18008
 Alderton, I. W. Power-objects in monotopological categories. 90c:18006
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 Diers, Yves Locally Hilbert categories. 90c:18009
 Higgs, D. A. (with Rowe, K. A.) Nuclearity in the category of complete semilattices. 90b:18009
 Kosłowski, Jürgen Topological hulls revisited. 90f:18005
 Lambek, J. Multicategories revisited. 90e:18010
 Obdulowicz, A. see Curien, P.-L., 90b:18010b
 Robinson, Edmund (with Rosolini, G.) Categories of partial maps. 90b:18010a
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 Rosolini, G. see Robinson, Edmund, 90b:18010a
 Rowe, K. A. see Higgs, D. A., 90b:18009
 Ślapiak, Josef Cartesian closedness in categories of relational systems. 90h:18009
 Vidal Martín, Concepción ★ El grupo de Picard de una categoría cerrada. (Una alternativa a la teoría de invariantes relativos). (Spanish) [The Picard group of a closed category. (An alternative to the theory of relative invariants)] 90h:18010

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Baranga, Andrei About recursive domain equations. 90c:68064
 Brown, Ronald (with Gilbert, N. D.) Algebraic models of 3-types and automorphism structures for crossed modules. 90b:18015
 Gilbert, N. D. see Brown, Ronald, 90b:18015
 Golasinski, Marek ω -Cat Yoneda lemma. 90m:18010
 Gray, John W. The category of sketches as a model for algebraic semantics. 90g:68083
 Jung, A. ★ Cartesian closed categories of domains. 90f:06009
 Mitchell, John C. (with Scott, Philip J.) Typed lambda models and Cartesian closed categories (preliminary version). 90f:03031
 Ohtsuka, Hiroshi A categorical model of λ -calculus based on de Bruijn's name-free expressions. 90m:03031
 Scott, Philip J. see Mitchell, John C., 90f:03031
 Walters, R. F. C. Data types in distributive categories. 90j:68030

18D20 Enriched categories (over closed or monoidal categories)

Betti, R. (with Walters, R. F. C.) The calculus of ends over a base topos. 90f:18008
 Dăianu, Dan Concrete a -categories. 90c:18007
 Johnson, S. R. Small Cauchy completions. 90j:18007
 Malm, Kaj Prespectra and towers over model categories. 90c:18008
 Walters, R. F. C. see Betti, R., 90f:18008

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Day, Brian J. (with Street, Ross) Localisation of locally presentable categories. 90h:18012
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 Power, A. J. A general coherence result. 90k:18007
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18D30 Fibered categories

Items with secondary classifications in 18D30

Alderton, I. W. How many initial completions does a monotopological category have? 90f:18002
 Hyland, J. M. E. (with Robinson, Edmund; Rosolini, G.) The discrete objects in the effective topos. 90k:18004
 Robinson, Edmund see Hyland, J. M. E.; et al., 90k:18004
 Rosolini, G. see Hyland, J. M. E.; et al., 90k:18004
 Šlapal, Josef Cartesian closedness in categories of relational systems. 90h:18009

18D35 Structured objects in a category (group objects, etc.)

Isbell, J. (with Kříž, I.; Pultr, A.; Rosický, J.) Remarks on localic groups. 90f:18009
 Kříž, I. see Isbell, J.; et al., 90f:18009
 Pultr, A. see Isbell, J.; et al., 90f:18009
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 Brown, Ronald Triadic Van Kampen theorems and Hurewicz theorems. 90k:55018
 Guitart, René On the geometry of computations. II. 90g:18001

18D99 None of the above, but in this section

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Items with secondary classifications in 18D99

Alagić, Mara On categories of relations. 90k:18001
 Brown, Ronald (with Golasinski, Marek) A model structure for the homotopy theory of crossed complexes. (French summary) 90f:18012
 Dwyer, W. G. (with Kan, D. M.) Hochschild-Mitchell cohomology of simplicial categories and the cohomology of simplicial diagrams of simplicial sets. 90g:18011
 Furchin, B. Yu. Crossed products of groups on categories and Auslander-Reiten quivers. 90g:16027
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 Kock, Anders Fibre bundles in general categories. 90b:18012
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 Montagna, Franco "Pathologies" in two syntactic categories of partial maps. 90f:03046
 Nel, Louis Daniel¹ Categorical differential calculus for infinite-dimensional spaces. (French summary) 90k:58016

18Exx Abelian categories

18E05 Preadditive, additive categories

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 — Wedderburn-Artin theorem for additive categories. 90d:18003

Items with secondary classifications in 18E05

Zhu, Sheng Lin A note on Fuller's theorem. 90j:16055

18E10 Exact categories, abelian categories

Dragomir, A. Exact categories with Serre classes. (Romanian summary) 90k:18010
 Fay, Temple H. (with Schoeman, Marius J.) Quasi-splitting in abelian categories. 90k:18011
 — (with Hardie, K. A.; Hilton, Peter John) The two-square lemma. 90h:18011
 Hardie, K. A. see Fay, Temple H.; et al., 90h:18011
 Hilton, Peter John see Fay, Temple H.; et al., 90h:18011
 Schoeman, Marius J. see Fay, Temple H., 90h:18011

Items with secondary classifications in 18E10

Cline, E. (with Parshall, B.; Scott, Leonard L.) Duality in highest weight categories. 90g:17014
 Parshall, B. see Cline, E.; et al., 90g:17014
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18E15 Grothendieck categories

Items with secondary classifications in 18E15

Verschoren, A. The sheaf representation of a Grothendieck category. 90h:18002

18E25 Derived functors and satellites

Pirashvili, T. I. Higher additivizations. (Russian. English summary) 90k:18012

Items with secondary classifications in 18E25

Khusainov, A. A. Cohomology of small categories with coefficients in an abelian category with exact products. 90k:18021

Makharadze, L. M. Commutativity of the homotopy functor with the inverse limit of simplicial sets. (Russian) 90c:55009

18E30 Derived categories, triangulated categories

Cline, E. (with Parshall, B.; Scott, Leonard L.) Algebraic stratification in representation categories. 90d:18004

— (with Parshall, B.; Scott, Leonard L.) Finite-dimensional algebras and highest weight categories. 90d:18005

Parshall, B. see Cline, E.; et al., 90d:18004 and 90d:18005

Scott, Leonard L. see Cline, E.; et al., 90d:18004 and 90d:18005

Items with secondary classifications in 18E30

Gelfand, S. I. (with Manin, Yu. I.) ★ Методы гомологической алгебры. Том I. (Russian) [Methods in homological algebra. Vol. I.] 90k:18016

Manin, Yu. I. see Gelfand, S. I., 90k:18016

Miyachi, Jun-ichi Localization of derived categories. (see 90k:16001)

Parthasarathy, Rajagopalan t -structures in the derived category of representations of quivers. 90j:16049

Păter, Z. Topological algebras of functions. 90m:46091

Scott, Leonard L. Derived categories and algebraic groups. 90f:20060

18E35 Localization of categories

Day, Brian J. (with Street, Ross) Localisation of locally presentable categories. 90h:18012

Miyachi, Jun-ichi Localization of derived categories. (see 90k:16001)

Street, Ross see Day, Brian J., 90h:18012

Items with secondary classifications in 18E35

Burghies, Dan A localization theorem for functional S^1 -spaces. 90d:55010**18E40 Torsion theories, radicals [see also 13D30, 16A63]**

Items with secondary classifications in 18E40

Fay, Temple H. (with Schoeman, Marius J.) Quasi-splitting in abelian categories. 90k:18011

Schoeman, Marius J. see Fay, Temple H., 90k:18011

18E99 None of the above, but in this section

Items with secondary classifications in 18E99

Leborgne, Daniel Quelques remarques sur la dualité de Pontryagin. (English summary) [Some remarks on Pontryagin duality] 90c:13020

Osafsky, Barbara L. Double infinite chain conditions. 90g:16020

Rodríguez-Machin, Sergio Homotopy in additive categories. (Spanish. English summary) 90f:55029

18Fxx Categories and geometry**18F10 Grothendieck topologies [see also 14F20]**

Motkol, Jiri Sheaves and approximation theorems. 90k:18013

18F15 Abstract manifolds and fiber bundles [see also 55Rxx, 57Pxx]

Gago Couso, Felipe ★ Internal weak opens, stability and Morse theory for synthetic germs. (Not in MR)

Kock, Anders Generalized fibre bundles. 90b:18009

— Fibre bundles in general categories. 90b:18012

Items with secondary classifications in 18F15

Bruno, Oscar P. Three problems concerning ideals of differentiable functions. 90c:58025

Bunge, Marta (with Gago Couso, Felipe) Synthetic aspects of C^∞ -mappings. II. Mather's theorem for infinitesimally represented germs. 90b:58022

Gago Couso, Felipe Morse germs in S.D.G. 90a:58002

— see also Bunge, Marta, 90b:58022

Mikulski, W. M. There exists a prolongation functor of infinite order. (Russian and Czech summaries) 90c:58011

Minguez, M. Carmen Some combinatorial calculus on Lie derivative. (French summary) 90b:58003

18F20 Presheaves and sheaves [see also 14F05, 32C35, 32L10, 54B40, 55N30]

Bhutan, Kiran R. Abelian groups in a topos of sheaves: torsion and essential extensions. 90a:18008

Items with secondary classifications in 18F20

Berni-Canani, U. (with Borceux, F.; Succi Cruciani, R.; Van den Bossche, G.) Étale maps of quantales. 90m:06017

Blass, Andreas (with Sceudrov, Andre) Freyd's models for the independence of the axiom of choice. 90d:03097

Borceux, F. see Berni-Canani, U.; et al., 90m:06017

Moerdijk, I. The classifying topos of a continuous groupoid. I. 90a:18005

Pillay, A. Sheaves of continuous definable functions. 90j:03071

Sceudrov, Andre see Blass, Andreas, 90d:03097

Skurikhin, E. E. On the normal cohomological dimension of open subsets of completely regular spaces. 90d:55009

Succi Cruciani, R. see Berni-Canani, U.; et al., 90m:06017

Van den Bossche, G. see Berni-Canani, U.; et al., 90m:06017

Verschoren, A. The sheaf representation of a Grothendieck category. 90h:18002

18F25 Algebraic K-theory and L-theory [see also 11Exx, 11R70, 11S70, 12-XX, 13D15, 14Cxx, 16A54, 19-XX, 57R65, 57R67]

(Anderson, Donald W.) see Atiyah, Michael, 90m:18011

Atiyah, Michael ★ K-theory. 90m:18011

Browkin, Jerzy A theorem of Sturm and K_1 for rings of real continuous functions. 90a:18009Geller, S. (with Weibel, Charles A.) $K(A, B, I)$. II. 90b:18013

Grayson, Daniel R. On the K-theory of fields. 90c:18010

Grunovich, M. M. A localization sequence in K-theory. (Russian) (see 90b:20005)

Kadison, Lars A relative cyclic cohomology theory useful for computations. (French summary) 90k:18014

van der Kallen, Wilberd A module structure on certain orbit sets of unimodular rows. 90c:18013

Moody, John Atwell Brauer induction for G_0 of certain infinite groups. 90b:18014

Plotkin, E. B. Surjective stabilization of a K-functor for Chevalley groups of normal and twisted types. 90c:18011

Quillen, Daniel Algebra cochains and cyclic cohomology. 90j:18008

Sherman, Clayton On the homotopy fiber of the map $BQ\mathcal{A}^{\otimes} \rightarrow BQ\mathcal{A}$ (after M. Auslander). 90c:18011

Staffeldt, Ross E. On fundamental theorems of algebraic K-theory. 90g:18009

Uridiya, M. B. Quillen's Q-construction for symmetric monoidal categories. (Russian. English summary) 90m:18012

Weibel, Charles A. Homotopy algebraic K-theory. 90d:18006

— see also Geller, S., 90b:18013

Items with secondary classifications in 18F25

Arason, Jón Kr. (with Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. II. 90a:11043

Ariettaz, Dominique Torsion classes in the cohomology of congruence subgroups. 90j:20097

Elman, Richard see Arason, Jón Kr.; et al., 90a:11043

Freitas, Raphaël K-théorie réelle des variétés de Stiefel quaternioniques. (English summary) [KO-theory of quaternionic Stiefel manifolds] 90j:55009

Hodges, Timothy J. Equivariant K-theory for Noetherian rings. 90h:16044

Ischebeck, Friedrich Subintegral ring extensions and some K-theoretical functors. 90j:13011

Jacob, Bill see Arason, Jón Kr.; et al., 90a:11043

Jardine, J. F. The homotopical foundations of algebraic K-theory. 90j:55029

Kastler, Daniel Cyclic cocycles from graded KMS functionals. 90c:46068

— Entire cyclic cohomology of $Z/2$ -graded Banach algebras. 90c:46067

Kholodov, A. N. The umbral calculus on many-valued formal groups, and Adams projectors in K-theory. 90c:55010

Komatsu, Keiichi K-groups and λ -invariants of algebraic number fields. 90b:11126

Laitinen, Erkki (with Lück, Wolfgang) Equivariant Lefschetz classes. 90j:55005

Lück, Wolfgang see Laitinen, Erkki, 90j:55005

Marimoto, Masaharu Bak groups and equivariant surgery. 90d:57037

Natsuume, Toshikazu (with Schack, Samuel D.) A decomposition for the cyclic cohomology of a commutative algebra. 90k:13010

Panin, I. A. Stabilization for orthogonal and symplectic algebraic K-theories. (Russian) 90c:20067

Prieto, Carlos The K-theory of diagrams. (Spanish) 90d:55007

Rakviashvili, G. G. On products in the algebraic K-theory of crossed enveloping superalgebras. (Russian. English summary) 90m:17024

Ronan, M. A. Duality for presheaves on chamber systems, and a related chain complex. 90c:17014

Schack, Samuel D. see Natsuume, Toshikazu, 90k:13010

Sherman, Clayton K-theory of discrete valuation rings. 90m:13015

Snaith, Victor Explicit Brauer induction. 90a:22025

Stepanov, A. V. Stable range and stability of arbitrary rows. 90g:16023

Varadarajan, K. ★ The finiteness obstruction of C. T. C. Wall. 90c:57041

Vaserstein, L. N. Normal subgroups of classical groups over rings and gauge groups. 90c:20041

Wagoner, J. B. Markov partitions and K_2 . 90d:28022

(Wall, C. T. C.) see Varadarajan, K., 90c:57041

Weinberger, Shmuel G-signatures and cyclotomic units. 90g:57029

Yamasaki, Masayuki L-groups of virtually polycyclic groups. 90j:57025

18F30 Grothendieck groups [see also 13D15, 16A54, 19Axx]

Dress, Andreas W. M. (with Siebeneicher, Christian) The Burnside ring of the infinite cyclic group and its relations to the necklace algebra, λ -rings, and the universal ring of Witt vectors. **90k:18015**

Siebeneicher, Christian see Dress, Andreas W. M., **90k:18015**

Items with secondary classifications in 18F30

Solberg, Øyvind Grothendieck groups for hypersurface rings. **90k:13012**

18F99 None of the above, but in this section

Moerdijk, I. Prodiscrete groups and Galois toposes. **90k:18014**

Items with secondary classifications in 18F99

Baldassarri, F. Comparison theorems in algebraic geometry. (Italian. English summary) **90c:14011**

Nel, Louis Daniel¹ Categorical differential calculus for infinite-dimensional spaces. (French summary) **90k:58016**

Tulczyjew, W. M. (with Urbański, P.; Zakrzewski, Stanisław) A pseudocategory of principal bundles. (Italian summary) **90g:55015**

Urbański, P. see Tulczyjew, W. M.; et al., **90g:55015**

Zakrzewski, Stanisław see Tulczyjew, W. M.; et al., **90g:55015**

18Gxx Homological algebra [see also 55Uxx]

Gelfand, S. I. (with Manin, Yu. I.) ★ Методы гомологической алгебры. Том I. (Russian) [Methods in homological algebra. Vol. I] **90k:18016**

Manin, Yu. I. see Gelfand, S. I., **90k:18016**

18G05 Projectives and injectives [see also 13C10, 13C11, 16A50, 16A52]

Items with secondary classifications in 18G05

Enochs, Edgar E. A modification of Grothendieck's spectral sequence. **90d:18008**

Hiremath, V. A. Copure-injective modules. **90a:16022**

Ogoma, Tetsushi A note on the syzygy problem. **90g:13023**

18G10 Resolutions; derived functors [see also 18E25]

Benson, David John Cyclic homology and path algebra resolutions. **90f:18010**

Dzhibladze, M. A. (with Pirashvili, T. I.) Cohomology of algebraic theories. (Russian. English and Georgian summaries) **90m:18013**

Pirashvili, T. I. see Dzhibladze, M. A., **90m:18013**

Items with secondary classifications in 18G10

Avramov, Luchezar L. (with Gasharov, Vesselin N.; Peeva, Irena V.) A periodic module of infinite virtual projective dimension. **90m:13016**

Enochs, Edgar E. A modification of Grothendieck's spectral sequence. **90d:18008**

Gasharov, Vesselin N. see Avramov, Luchezar L.; et al., **90m:13016**

Gerstenhaber, Murray (with Schack, Samuel D.) Algebraic cohomology and deformation theory. **90c:16016**

— (with Schack, Samuel D.) Triangular algebras. **90c:16017**

Khmeleva, L. E. Modules over Dedekind rings. (Russian) **90m:13017**

Ogoma, Tetsushi A note on the syzygy problem. **90g:13023**

Peeva, Irena V. see Avramov, Luchezar L.; et al., **90m:13016**

Pirashvili, T. I. Higher additivizations. (Russian. English summary) **90k:18012**

Romeo, Grazia On the complex of approximation of a module of finite projective dimension. (Italian. English summary) **90d:13013**

Schack, Samuel D. see Gerstenhaber, Murray, **90c:16016** and **90c:16017**

Stasheff, James D. Constrained Poisson algebras and strong homotopy representations. **90a:58057**

18G15 Ext and Tor, generalizations, Künneth formula [see also 55U25]

Bourn, Dominique The tower of n -groupoids and the long cohomology sequence. **90k:18017**

Bruner, Robert R. Calculation of large Ext modules. **90g:18010**

Mac Lane, Saunders Decker's sharper Künneth formula. **90f:18011**

Items with secondary classifications in 18G15

Fuchs, László¹ Some applications of abelian group theory to modules. **90e:13009**

Guzmán, Fernando Cointegrations, relative cohomology for comodules, and coseparable corings. **90j:16064**

Miyazaki, Mitsuhiro Characterizations of Buchsbaum complexes. **90b:13025**

Natsume, Toshikazu (with Schack, Samuel D.) A decomposition for the cyclic cohomology of a commutative algebra. **90k:13010**

Schack, Samuel D. see Natsume, Toshikazu, **90k:13010**

18G20 Homological dimension [see also 13Dxx, 16A60, 16A62]

Items with secondary classifications in 18G20

Collins, Donald J. Cohomological dimension and symmetric automorphisms of a free group. **90e:20035**

18G25 Relative homological algebra, projective classes

Items with secondary classifications in 18G25

Generalov, A. I. The Kuz'minov formula. **90a:20114**

Guzmán, Fernando Cointegrations, relative cohomology for comodules, and coseparable corings. **90j:16064**

Kadison, Lars A relative cyclic cohomology theory useful for computations. (French summary) **90k:18014**

de Robert, Etienne Absolutely split exact sequences. **90b:16046**

18G30 Simplicial sets, simplicial objects (in a category) [see also 55U10]

Aznar García, Enrique R. see Lirio Terrez, Antonio; et al., **90e:18012**

Bullejos, M. see Lirio Terrez, Antonio; et al., **90e:18012**

Cortiñas, Guillermo (with Guccione, Jorge; Villamayor, Orlando E.) Cyclic homology of $K(\mathbb{Z}/p, \mathbb{Z})$. **90i:18006**

Dwyer, W. G. (with Kan, D. M.) Hochschild-Mitchell cohomology of simplicial categories and the cohomology of simplicial diagrams of simplicial sets. **90g:18011**

— (with Kan, D. M.; Smith, Jeffrey Henderson) Homotopy commutative diagrams and their realizations. **90d:18007**

Goerss, Paul G. A Hilton-Milnor theorem for categories of simplicial algebras. **90k:18018**

Guccione, Jorge see Cortiñas, Guillermo; et al., **90i:18006**

Kan, D. M. see Dwyer, W. G.; et al., **90d:18007** and **90g:18011**

Kassel, Christian Quand l'homologie cyclique périodique n'est pas la limite projective de l'homologie cyclique. (English summary) [When periodic cyclic homology is not the projective limit of cyclic homology] **90i:18007**

Lirio Terrez, Antonio (with Aznar García, Enrique R.; Bullesjos, M.) The cohomology groups of an epimorphism. **90e:18012**

Nan Tie, Gary A Dold-Kan theorem for crossed complexes. **90e:18013**

— Iterated \bar{W} and T -groupoids. **90e:18014**

Porter, Timothy Crossed modules, crossed n -cubes and simplicial groups. **90j:18009**

Smith, Jeffrey Henderson see Dwyer, W. G.; et al., **90d:18007**

Villamayor, Orlando E. see Cortiñas, Guillermo; et al., **90i:18006**

Items with secondary classifications in 18G30

Adem, Alejandro (with Cohen, Ralph L.; Dwyer, W. G.) Generalized Tate homology, homotopy fixed points and the transfer. **90k:55012**

Benson, David John Cyclic homology and path algebra resolutions. **90f:18010**

Cohen, Ralph L. see Adem, Alejandro; et al., **90k:55012**

Duskin, John W. The Azumaya complex of a commutative ring. **90c:13003**

Dwyer, W. G. (with Miller, Haynes; Neisendorfer, Joseph) Fibrewise completion and unstable Adams spectral sequences. **90i:55034**

— see also Adem, Alejandro; et al., **90k:55012**

Ismatov, A. A. (with Trofimov, V. A.) Homology of complete Brouwer lattices. **90j:18006**

Makharadze, L. M. Commutativity of the homotopy functor with the inverse limit of simplicial sets. (Russian) **90c:55009**

Miller, Haynes see Dwyer, W. G.; et al., **90i:55034**

Neisendorfer, Joseph see Dwyer, W. G.; et al., **90i:55034**

Trofimov, V. A. see Ismatov, A. A., **90j:18006**

Yun, Dall Sun The cup and cap product of simplicial modules. **90c:55035**

18G35 Chain complexes [see also 18E30, 55U15]

Brylinski, Jean-Luc Central localization in Hochschild homology. **90b:18015**

Pachkoria, A. M. On cohomology monoids. (Russian. English summary) **90k:18019**

Items with secondary classifications in 18G35

Brown, Ronald (with Higgins, P. J.) Crossed complexes and chain complexes with operators. **90j:55030**

Getzler, Ezra (with Jones, John D. S.; Petrack, Scott B.) Loop spaces, cyclic homology and the Chern character. **90g:58124**

Higgins, P. J. see Brown, Ronald, **90j:55030**

Jones, John D. S. see Getzler, Ezra; et al., **90g:58124**

Petrack, Scott B. see Getzler, Ezra; et al., **90g:58124**

18G40 Spectral sequences, hypercohomology [see also 55Txx]

Enochs, Edgar E. A modification of Grothendieck's spectral sequence. **90d:18008**

Huebschmann, Johannes Change of rings and characteristic classes. **90b:18015**

Jardine, J. F. The Leray spectral sequence. **90k:18020**

Khusainov, A. A. Cohomology of small categories with coefficients in an abelian category with exact products. **90k:18021**

Prasolov, A. V. A spectral sequence for strong homology. (Serbo-Croatian summary) **90m:18014**

Items with secondary classifications in 18G40

Kleiman, Steven The development of intersection homology theory. **90m:01045**

18G50 Nonabelian homological algebra [see also 19D99]

Bourn, Dominique Pseudofunctors and nonabelian weak equivalences. **90b:18016**

Brown, Ronald (with Golasiński, Marek) A model structure for the homotopy theory of crossed complexes. (French summary) **90f:18012**

Golasiński, Marek see Brown, Ronald, **90f:18012**

R-Grandjean L-Valcárcel, A. (with Vale Gonsalves, Maria J.) Linear methods in the Andre-Quillen cohomology. **90b:18016**

Takhtadzhyan, L. A. The noncommutative homology of quantum tori. **90m:18015**

Vale Gonsalves, Maria J. see R-Grandjean L-Valcárcel, A., **90b:18016**

Items with secondary classifications in 18G50

Aznar García, Enrique R. see Lirio Terrez, Antonio; et al., **90e:18012**

- Buism, Alexandru Corps de modules et cohomologie non abélienne. (English summary) [Fields of moduli and nonabelian cohomology] 90b:14010
 — Birational moduli and nonabelian cohomology. 90a:14010
 Bullejos, M. *see* Lirio Terrez, Antonio; et al., 90e:18012
 Lirio Terrez, Antonio (with Aznar García, Enrique R.; Bullejos, M.) The cohomology groups of an epimorphism. 90e:18012
 Stora, Raymond Differential algebras in field theory and their anomalies: two examples. 90c:55006

18G55 Nonabelian homotopical algebra

- Brown, Ronald (with Gilbert, N. D.) Algebraic models of 3-types and automorphism structures for crossed modules. 90e:18015
 Ellis, G. J. Higher-dimensional crossed modules of algebras. 90a:18010
 Gilbert, N. D. *see* Brown, Ronald, 90e:18015
 Items with secondary classifications in 18G55
 Gultart, René L'unité de la théorie des modèles et de l'algèbre homologique. (English summary) [The unity of model theory and homological algebra] 90m:18009
 Rodríguez-Machin, Sergio Homotopy in additive categories. (Spanish. English summary) 90f:55029

18G99 None of the above, but in this section

- Cibils, Claude Cohomology of incidence algebras and simplicial complexes. 90d:18009
 Items with secondary classifications in 18G99
 Ayala, R. (with Domínguez Murillo, Eladio; Quintero, A.) Approximation axiomatique à la théorie du bordisme. (English summary) [An axiomatic approach to bordism theory] 90j:55010
 Bousfield, A. K. (with Peterson, Chariya P.; Smith, Larry) The rational homology of function spaces. 90d:55020
 Domínguez Murillo, Eladio *see* Ayala, R.; et al., 90j:55010
 Douglas, R. G. Elliptic invariants and operator algebras: toroidal examples. 90f:58169
 Dwyer, W. G. (with Kan, D. M.) Hochschild-Mitchell cohomology of simplicial categories and the cohomology of simplicial diagrams of simplicial sets. 90g:18011
 Ellis, G. J. Crossed modules. 90d:20001
 Fox, Thomas F. Algebraic deformations and bicohomology. 90b:18007
 Guillén, F. Hyperrésolutions cubiques. [Cubic hyperresolutions] (see 90a:14024)
 Hita, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] 90e:22019
 Kan, D. M. *see* Dwyer, W. G., 90g:18011
 Menal, Pere (with Vaserstein, L. N.) On subgroups of GL_2 over noncommutative local rings which are normalized by elementary matrices. 90k:20085
 Mirminezhil, M. R. An Inasariidze type homology of commutative rings. (Russian. English and Georgian summaries) 90b:13019
 Pachkoria, A. M. On cohomology monoids. (Russian. English summary) 90k:18019
 Peterson, Chariya P. *see* Bousfield, A. K.; et al., 90d:55020
 Quintero, A. *see* Ayala, R.; et al., 90j:55010
 Smith, Larry *see* Bousfield, A. K.; et al., 90d:55020
 Vaserstein, L. N. *see* Menal, Pere, 90k:20085

19-XX K-theory (to be used only for secondary classifications, until further notice) [see also 16A54, 18F25]

19-01 Elementary exposition; textbooks

- Items with secondary classifications in 19-01
 (Anderson, Donald W.) *see* Atiyah, Michael, 90m:18011
 Atiyah, Michael *★* K-theory. 90m:18011

19-02 Advanced exposition (research surveys, monographs, etc.)

- Items with secondary classifications in 19-02
 (Dieudonné, Jean) *see* Hahn, Alexander J., 90e:20002
 Hahn, Alexander J. (with O'Meara, O. Timothy) *★* The classical groups and K-theory. 90e:20002
 O'Meara, O. Timothy *see* Hahn, Alexander J., 90e:20002

19-06 Proceedings, conferences, etc.

- Items with secondary classifications in 19-06
 (Jardine, J. F.) *see* Algebraic K-theory: connections with geometry and topology, 90m:18001
 (Kuku, A. O.) *see* Proceedings: Research Symposium on K-Theory and its Applications, 90a:18001
 (Smith, Victor) *see* Algebraic K-theory: connections with geometry and topology, 90m:18001
 (Weibel, Charles A.) *see* Proceedings: Research Symposium on K-Theory and its Applications, 90a:18001

Items listed otherwise than by author

- Algebraic K-theory: connections with geometry and topology *★* Algebraic K-theory: connections with geometry and topology. 90m:18001
 Ibadan *★* Proceedings of Research Symposium on K-Theory and its Applications. 90a:18001
 Lake Louise, AB *★* Algebraic K-theory: connections with geometry and topology. 90m:18001
 NATO Advanced Study Institute: Algebraic K-Theory: Connections with Geometry and Topology *★* Algebraic K-theory: connections with geometry and topology. 90m:18001
 Proceedings: Research Symposium on K-Theory and its Applications *★* Proceedings of Research Symposium on K-Theory and its Applications. 90a:18001
 Symposium: K-Theory and its Applications *★* Proceedings of Research Symposium on K-Theory and its Applications. 90a:18001

19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A13 Stability for projective modules [see also 13C10]

- Items with secondary classifications in 19A13
 Odenthal, Charles J. Presentations over HNP rings with enough invertible ideals and torsionfree cancellation over neoclassical orders. 90m:16008
 Vaserstein, L. N. Normal subgroups of symplectic groups over rings. 90f:20064

19A15 Efficient generation

- Items with secondary classifications in 19A15
 Mennicke, Jens L. On Fibonacci groups and some other groups. (see 90h:20004)

19A22 Frobenius modules, induction theory

- Items with secondary classifications in 19A22
 Ljulevicus, Arunas A reciprocity law for symmetric products of G -sets. 90d:20005
 Moody, John Atwell Brauer induction for G_0 of certain infinite groups. 90b:18014
 Ochoa, Gustavo Outer plethysm, Burnside ring and β -rings. 90a:20025

19A31 K_0 of group rings and orders

- Items with secondary classifications in 19A31
 Assad, Amir H. On finite domination and simple homotopy type of nonsimply-connected G -spaces. 90k:57045
 Brown, K. A. (with Howie, James; Lorenz, Martin) Induced resolutions and Grothendieck groups of polycyclic-by-finite groups. 90d:20015
 Ewing, John H. (with Löffler, Peter; Pedersen, Erik K.) A local approach to the finite obstruction. 90a:57030
 Hochsmann, Klaus Généralisation d'un lemme de Kummer. (English summary) [Generalization of a lemma of Kummer] 90m:11173
 Howie, James *see* Brown, K. A.; et al., 90d:20015
 Löffler, Peter *see* Ewing, John H.; et al., 90a:57030
 Lorenz, Martin *see* Brown, K. A.; et al., 90d:20015
 Lück, Wolfgang (with Ranicki, Andrew) Chain homotopy projections. 90i:57013
 Pedersen, Erik K. *see* Ewing, John H.; et al., 90a:57030
 Ranicki, Andrew *see* Lück, Wolfgang, 90i:57013
 Solberg, Øyvind Grothendieck groups for hypersurface rings. 90k:13012

19A49 K_0 of other rings

- Items with secondary classifications in 19A49
 Alef, J. Algèbres d'invariants de $A_1(C)$. [Algebras of invariants of $A_1(C)$] 90c:16014
 Hodges, Timothy J. K-theory of Noetherian rings. 90m:16028
 — Equivariant K-theory for Noetherian rings. 90h:16044
 Ischebeck, Friedrich Subintegral ring extensions and some K-theoretical functors. 90E:13011
 Kucharz, W. How to make vector bundles algebraic. 90m:14018
 — Symplectic bilinear forms on affine real algebraic surfaces. 90e:14022

19A99 None of the above, but in this section

- Items with secondary classifications in 19A99
 Lorenz, Martin (with Passman, D. S.) The structure of G_0 for certain polycyclic group algebras and related algebras. 90j:16059
 Passman, D. S. *see* Lorenz, Martin, 90j:16059
 Varadarajan, K. *★* The finiteness obstruction of C. T. C. Wall. 90e:57041
 (Wall, C. T. C.) *see* Varadarajan, K., 90e:57041

19Bxx Whitehead groups and K_1

19B10 Stable range conditions

Items with secondary classifications in 19B10

- Guin, Daniel Homologie du groupe linéaire et K -théorie de Milnor des anneaux. [Homology of linear groups and Milnor K -theory of rings] 90g:11051
 Rupp, Rudolf Stable rank of subalgebras of the disc algebra. 90f:46087
 Stepanov, A. V. Stable range and stability of arbitrary rows. 90g:16023

19B14 Stability for linear groups

Items with secondary classifications in 19B14

- van der Kallen, Wilberd A module structure on certain orbit sets of unimodular rows. 90b:18013
 Menal, Pere (with Vaserstein, L. N.) On subgroups of GL_2 over noncommutative local rings which are normalized by elementary matrices. 90k:20085
 Vaserstein, L. N. see Menal, Pere, 90k:20085

19B28 K_1 of group rings and orders

Items with secondary classifications in 19B28

- Assadi, Amir H. On finite domination and simple homotopy type of nonsimply-connected G -spaces. 90k:57045
 Farrell, F. T. (with Jones, Lowell Edwin) A topological analogue of Mostow's rigidity theorem. 90h:57023a
 — (with Jones, Lowell Edwin) Compact negatively curved manifolds (of dim $\neq 3, 4$) are topologically rigid. 90h:57023b
 — (with Jones, Lowell Edwin) Rigidity and other topological aspects of compact nonpositively curved manifolds. 90h:57023c
 Jones, Lowell Edwin see Farrell, F. T., 90h:57023a; 90h:57023b and 90h:57023c

19B37 Congruence subgroup problems [see also 20H05]

Items with secondary classifications in 19B37

- Chernousov, V. I. Groups of rational points of algebraic groups over algebraically nonclosed fields. (Russian) 90k:20077
 Li, Fu An The question of normal subgroups and congruence subgroups of classical groups. (Chinese. English summary) 90a:20091
 Monastyrnyi, A. P. (with Yanchevskii, V. I.) On the Whitehead groups and the Kneser-Tits conjecture for spinor groups. 90i:11040
 Tomason, G. M. Congruence subgroup problem for groups of type G_2 . 90i:20049
 — On the congruence-subgroup problem for some anisotropic algebraic groups over number fields. 90m:11054
 Yanchevskii, V. I. see Monastyrnyi, A. P., 90i:11040

19B99 None of the above, but in this section

Items with secondary classifications in 19B99

- Browkin, Jerzy A theorem of Sturm and K_1 for rings of real continuous functions. 90a:18009

19Cxx Steinberg groups and K_2

19C09 Central extensions and Schur multipliers

Items with secondary classifications in 19C09

- Connes, Alain (with Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] 90c:58174
 Karoubi, Max see Connes, Alain, 90c:58174
 Li, Fu An Isomorphisms of Steinberg groups over commutative rings. 90d:20088

19C20 Symbols, presentations of K_2

Items with secondary classifications in 19C20

- Browkin, Jerzy Conjectures on the dilogarithm. 90m:11185
 Keune, Frans On the structure of the K_2 of the ring of integers in a number field. 90g:11162
 Lichtenbaum, Stephen Groups related to scissors-congruence groups. 90c:20030
 Yuryakov, A. V. A reduced norm for K_2 from local division algebras. (Russian) (see 90h:20005)

19C30 K_2 and the Brauer group

Items with secondary classifications in 19C30

- Grayson, Daniel R. On the K -theory of fields. 90c:18010
 Merkur'ev, A. S. Torsion in the group K_2 for fields. 90d:11130

19C40 Excision for K_2

Items with secondary classifications in 19C40

- Wagoner, J. B. Topological Markov chains, C^* -algebras, and K_2 . 90j:46059

19C99 None of the above, but in this section

Items with secondary classifications in 19C99

- Candioti, Alan (with Kramer, Kenneth) On the 2-Sylow subgroup of the Hilbert kernel of K_2 of number fields. 90h:11108
 Conner, P. E. (with Hurrelbrink, J.) The 4-rank of $K_2(O)$. 90j:11130
 Gras, Georges (with Jaulent, Jean-François) Sur les corps de nombres réguliers. [On regular number fields] 90i:11128
 Hettling, Karl F. On odd prime numbers dividing the order of $K_2(o)$. 90h:11125
 Hurrelbrink, J. see Conner, P. E., 90j:11130
 Jaulent, Jean-François see Gras, Georges, 90i:11128
 Komatsu, Keiichi K -groups and λ -invariants of algebraic number fields. 90h:11126
 Kramer, Kenneth see Candioti, Alan, 90h:11108
 Wagoner, J. B. Markov partitions and K_2 . 90d:28022

19Dxx Higher algebraic K -theory19D06 Q - and plus-constructions

Items with secondary classifications in 19D06

- Jardine, J. F. The homotopical foundations of algebraic K -theory. 90j:55029
 Pedersen, Erik K. (with Weibel, Charles A.) K -theory homology of spaces. 90m:55007
 Sherman, Clayton On the homotopy fiber of the map $BQ\mathcal{A}^* \rightarrow BQ\mathcal{A}$ (after M. Auslander). 90c:18011
 Uridiya, M. B. Quillen's Q -construction for symmetric monoidal categories. (Russian. English summary) 90m:18012
 Weibel, Charles A. see Pedersen, Erik K., 90m:55007

19D10 Algebraic K -theory of spaces

Items with secondary classifications in 19D10

- Igusa, Kiyoshi The stability theorem for smooth pseudoisotopies. 90d:57035
 Staffeldt, Ross E. On fundamental theorems of algebraic K -theory. 90g:18009

19D25 Karoubi-Villamayor-Gersten K -theory

Items with secondary classifications in 19D25

- Sherman, Clayton K -theory of discrete valuation rings. 90m:13015
 Van Daele, A. A new invariant for a finite covariant system. 90a:46119
 Weibel, Charles A. Homotopy algebraic K -theory. 90d:18006

19D35 Negative K -theory, NK and Nil

Items with secondary classifications in 19D35

- Lück, Wolfgang (with Ranicki, Andrew) Chain homotopy projections. 90i:57013
 Madsen, I. (with Rothenberg, Melvin) Equivariant pseudo-isotopies and K_{-1} . 90g:57028
 Pedersen, Erik K. (with Weibel, Charles A.) K -theory homology of spaces. 90m:55007
 Ranicki, Andrew see Lück, Wolfgang, 90i:57013
 Rothenberg, Melvin see Madsen, I., 90g:57028
 Weibel, Charles A. see Pedersen, Erik K., 90m:55007

19D45 Higher symbols, Milnor K -theory

Items with secondary classifications in 19D45

- Guin, Daniel Homologie du groupe linéaire et K -théorie de Milnor des anneaux. [Homology of linear groups and Milnor K -theory of rings] 90g:11051
 Jacob, Bill (with Rost, Markus) Degree four cohomological invariants for quadratic forms. 90g:11044
 Morava, Jack Browder-Fröhlich symbols. 90m:11190
 Nesterenko, Yu. P. (with Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's K -theory. 90a:20092
 Rost, Markus see Jacob, Bill, 90g:11044
 Suslin, A. A. see Nesterenko, Yu. P., 90a:20092

19D55 K -theory and homology

Items with secondary classifications in 19D55

- Adem, Alejandro (with Cohen, Ralph L.; Dwyer, W. G.) Generalized Tate homology, homotopy fixed points and the transfer. 90k:55012
 Araki, Huzihiro Schwinger terms and cyclic cohomology. 90c:46084
 Arlettaz, Dominique Torsion classes in the cohomology of congruence subgroups. 90j:20097
 Brylinski, Jean-Luc Some examples of Hochschild and cyclic homology. 90c:22018
 — Central localization in Hochschild homology. 90b:18015
 Cohen, Ralph L. see Adem, Alejandro; et al., 90k:55012
 Coquereaux, R. (with Kastler, Daniel) Remarks on the differential envelopes of associative algebras. 90g:16003
 Cortiñas, Guillermo (with Guccione, Jorge; Villamayor, Orlando E.) Cyclic homology of $K[\mathbb{Z}/p \cdot \mathbb{Z}]$. 90i:18006
 Dwyer, W. G. see Adem, Alejandro; et al., 90k:55012
 Geller, S. (with Weibel, Charles A.) $K(A, B, I)$. II. 90h:18013
 Guccione, Jorge see Cortiñas, Guillermo; et al., 90i:18006
 Kadison, Lars A relative cyclic cohomology theory useful for computations. (French summary) 90k:18014
 Karoubi, Max Cyclic homology and characteristic classes of bundles with additional structures. 90d:58149

- Kassel, Christian Quand l'homologie cyclique périodique n'est pas la limite projective de l'homologie cyclique. (English summary) [When periodic cyclic homology is not the projective limit of cyclic homology] 90i:18007
- Kastler, Daniel Cyclic cocycles from graded KMS functionals. 90e:46068
- Entire cyclic cohomology of $Z/2$ -graded Banach algebras. 90e:46067
- see also Coquereaux, R., 90g:16003
- Natsume, Toshikazu (with Schack, Samuel D.) A decomposition for the cyclic cohomology of a commutative algebra. 90k:13010
- Nest, Ryszard Cyclic cohomology of crossed products with Z . 90e:46068
- Nesterenko, Yu. P. (with Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's K -theory. 90a:20092
- Quillen, Daniel Algebra cochains and cyclic cohomology. 90j:18008
- Roes, Jan-Erik Homology of free loop spaces, cyclic homology and nonrational Poincaré-Betti series in commutative algebra. 90f:55020
- Schack, Samuel D. see Natsume, Toshikazu, 90k:13010
- Staffeldt, Ross E. On fundamental theorems of algebraic K -theory. 90g:18009
- Suslin, A. A. see Nesterenko, Yu. P., 90a:20092
- Takhtadzhyan, L. A. The noncommutative homology of quantum tori. 90m:18015
- Van Daele, A. A new invariant for a finite covariant system. 90a:46119
- Villamayor, Orlando E. see Cortiñas, Guillermo; et al., 90i:18006
- Weibel, Charles A. see Geller, S., 90k:18013

19D99 None of the above, but in this section

Items with secondary classifications in 19D99

- Grayson, Daniel R. On the K -theory of fields. 90c:18010
- Gruntovich, M. M. A localization sequence in K -theory. (Russian) (see 90h:20005)
- Lück, Wolfgang (with Ranicki, Andrew) Surgery transfer. 90h:57041
- Ranicki, Andrew see Lück, Wolfgang, 90h:57041
- Soulé, Christophe Connexions et classes caractéristiques de Beilinson. [Connections and Beilinson's characteristic classes] 90h:14026

19Exx K -theory in geometry

19E08 K -theory of schemes

Items with secondary classifications in 19E08

- Al Amrani, A. Groupe de Chow et K -théorie cohérente des espaces projectifs tordus. (English summary) [The Chow group and coherent K -theory of twisted projective spaces] 90e:14003
- Panin, I. A. Algebraic K -theory of Grassmannian manifolds and their twisted forms. 90m:14010
- Podini, Claudio Riemann-Roch and Chow theories for singular varieties. 90e:14009
- Weibel, Charles A. A Brown-Gersten spectral sequence for the K -theory of varieties with isolated singularities. 90j:14012

19E15 Algebraic cycles [see also 14C35]

Items with secondary classifications in 19E15

- Bloch, Spencer Cycles and biextensions. 90d:14006
- Bochnak, J. (with Kucharz, W.) K -theory of real algebraic surfaces and threefolds. 90k:14018
- Kucharz, W. see Bochnak, J., 90k:14018
- Lawson, H. Blaine, Jr. (with Michelsohn, Marie-Louise) Algebraic cycles, Bott periodicity, and the Chern characteristic map. 90d:14010
- Michelsohn, Marie-Louise see Lawson, H. Blaine, Jr., 90d:14010
- Nesterenko, Yu. P. (with Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's K -theory. 90a:20092
- Raskind, Wayne Algebraic K -theory, étale cohomology and torsion algebraic cycles. 90d:14011
- Suslin, A. A. see Nesterenko, Yu. P., 90a:20092
- Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over F_q . 90k:14029

19E20 Relations with cohomology theories [see also 14F15]

Items with secondary classifications in 19E20

- Esnault, Hélène On the Loday symbol in the Deligne-Beilinson cohomology. 90j:14025
- Panazzolo, P. Descente cubique pour la K -théorie des faisceaux cohérents et l'homologie de Chow. [Cubic descent for the K -theory of coherent sheaves and Chow homology] (see 90a:14024)
- Quillen, Daniel Algebra cochains and cyclic cohomology. 90j:18008
- Raskind, Wayne Algebraic K -theory, étale cohomology and torsion algebraic cycles. 90d:14011
- Soulé, Christophe Connexions et classes caractéristiques de Beilinson. [Connections and Beilinson's characteristic classes] 90h:14026
- Thomason, R. W. Survey of algebraic vs. étale topological K -theory. 90k:14029

19E99 None of the above, but in this section

Items with secondary classifications in 19E99

- Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] 90m:14016
- Handelman, David E. Representing polynomials by positive linear functions on compact convex polyhedra. 90e:52005

19Fxx K -theory in number theory [see also 11R70, 11S70]

19F05 Generalized class field theory

Items with secondary classifications in 19F05

- Fesenko, I. B. A generalized symbol in multidimensional local fields. (Russian) 90d:11133
- Ihara, Yasutaka (with Saito, Takeshi) Introduction to the work of Kazuya Kato. (Japanese) 90d:11077
- Kato, Kazuya A generalization of class field theory. (Japanese) 90g:11080
- Swan conductors for characters of degree one in the imperfect residue field case. 90j:11164
- see also Ihara, Yasutaka, 90d:11077
- Saito, Shuji Arithmetic theory of arithmetic surfaces. 90f:11043
- Some observations on motivic cohomology of arithmetic schemes. 90k:11077
- Saito, Takeshi see Ihara, Yasutaka, 90d:11077

19F15 Symbols and arithmetic

Items with secondary classifications in 19F15

- Arbarello, Enrico (with De Concini, C.; Kac, V. G.) The infinite wedge representation and the reciprocity law for algebraic curves. 90i:22034
- De Concini, C. see Arbarello, Enrico; et al., 90i:22034
- Gras, Georges (with Jaulent, Jean-François) Sur les corps de nombres réguliers. [On regular number fields] 90i:11128
- Jaulent, Jean-François see Gras, Georges, 90i:11128
- Kac, V. G. see Arbarello, Enrico; et al., 90i:22034
- Kersten, Ina On K_2 and Z_p -extensions of $\mathbb{Q}(\zeta^p)$. 90m:11163

19F27 Étale cohomology, higher regulators, zeta and L -functions [see also 11R42, 11S40, 14G10]

Items with secondary classifications in 19F27

- Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] 90m:14016
- Deninger, Ch. Higher regulators of elliptic curves with complex multiplication. 90f:11040
- Higher regulators and Hecke L -series of imaginary quadratic fields. I. 90f:11041
- Dupont, Johan L. On polylogarithms. 90d:14009
- Esnault, Hélène On the Loday symbol in the Deligne-Beilinson cohomology. 90j:14025
- Hettinger, Karl F. On odd prime numbers dividing the order of $K_2(\mathcal{O})$. 90i:11125
- Jannsen, Uwe On the Galois cohomology of l -adic representations attached to varieties over local or global fields. 90i:14010
- On the l -adic cohomology of varieties over number fields and its Galois cohomology. 90i:11064
- Jardine, J. F. Universal Hasse-Witt classes. 90h:14027
- Kolster, Manfred A relation between the 2-primary parts of the main conjecture and the Birch-Tate-conjecture. 90k:11154
- Komatsu, Keiichi Eine Bemerkung über Dedekindsche Zetafunktionen und K -Gruppe. [A remark on Dedekind zeta functions and K -group] 90m:11179
- Nart, Enrie The Bloch complex in codimension one and arithmetic duality. 90j:11057
- Neukirch, Jürgen The Beilinson conjecture for algebraic number fields. 90f:11042
- Snaith, Victor Explicit Brauer induction. 90a:22025
- Thomason, R. W. Survey of algebraic vs. étale topological K -theory. 90k:14029
- Zagier, Don The Bloch-Wigner-Ramkrishnan polylogarithm function. 90k:11153

19F99 None of the above, but in this section

Items with secondary classifications in 19F99

- Candiotti, Alan (with Kramer, Kenneth) On the 2-Sylow subgroup of the Hilbert kernel of K_2 of number fields. 90h:11108
- Conner, P. E. (with Hurrelbrink, J.) The 4-rank of $K_2(\mathcal{O})$. 90j:11130
- Hurrelbrink, J. see Conner, P. E., 90j:11130
- Komatsu, Keiichi K -groups and λ -invariants of algebraic number fields. 90h:11126
- Kramer, Kenneth see Candiotti, Alan, 90h:11108
- Snaith, Victor ★ Topological methods in Galois representation theory. 90f:12005

19Gxx K -theory of forms [see also 11Exx]

19G05 Stability for quadratic modules

Items with secondary classifications in 19G05

- Panin, I. A. Stabilization for orthogonal and symplectic algebraic K -theories. (Russian) 90g:20067
- Plotkin, E. B. Subjective stabilization of a K -functor for Chevalley groups of normal and twisted types. 90c:18011

19G12 Witt groups of rings [see also 11E81]

Items with secondary classifications in 19G12

- Arason, Jón Kr. (with Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. II. 90a:11043
- Bochnak, J. (with Kucharz, W.) K -theory of real algebraic surfaces and threefolds. 90k:14018

- Boa, Rik A structure theorem for abstract Witt rings containing rigid elements. 90b:11044
 Elman, Richard *see* Arason, Jón Kr.; et al., 90a:11043
 Iwan, Andrzej (with Wowk, Czesław) Basic part of Witt rings of elementary type. 90d:11049
 Jacob, Bill *see* Arason, Jón Kr.; et al., 90a:11043
 Jiang, Di Hua The structure of the Grothendieck groups of almost unimodular quadratic lattices. (Chinese) 90h:11034
 Kucharz, W. Symplectic complex bundles over real algebraic four-folds. 90k:14021
 — *see also* Bochnak, J., 90k:14018
 Lewis, D. W. New proofs of the structure theorems for Witt rings. 90d:11050
 — Hermitian forms over odd-dimensional algebras. 90g:11048
 Wowk, Czesław *see* Iwan, Andrzej, 90d:11049

19G24 L-theory of group rings [see also 11E81]

Items with secondary classifications in 19G24

- Hambleton, Ian (with Madsen, I.) On the discriminants of forms with Arf invariant one. 90e:11026
 Lück, Wolfgang (with Ranicki, Andrew) Chain homotopy projections. 90i:57013
 Madsen, I. *see* Hambleton, Ian, 90e:11026
 Ranicki, Andrew *see* Lück, Wolfgang, 90i:57013
 Yamasaki, Masayuki L-groups of virtually polycyclic groups. 90j:57025

19G38 Relations with K-theory of rings

Items with secondary classifications in 19G38

- Bayer-Fluckiger, E. (with Kearton, C.; Wilson, S. M. J.) Hermitian forms in additive categories: finiteness results. 90k:11038
 Kearton, C. *see* Bayer-Fluckiger, E.; et al., 90k:11038
 Wilson, S. M. J. *see* Bayer-Fluckiger, E.; et al., 90k:11038

19G99 None of the above, but in this section

Items with secondary classifications in 19G99

- Jacob, Bill (with Rost, Markus) Degree four cohomological invariants for quadratic forms. 90g:11044
 Ronan, M. A. Duality for presheaves on chamber systems, and a related chain complex. 90c:17014
 Rost, Markus *see* Jacob, Bill, 90g:11044

19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]

19K14 K_0 as an ordered group, traces

Items with secondary classifications in 19K14

- Anderson, Joel (with Paschke, William) The rotation algebra. 90k:46126
 Blackadar, Bruce Comparison theory for simple C^* -algebras. 90g:46078
 Bratteli, Ola (with Elliott, George A.; Goodman, Fred; Jørgensen, Palle E. T.) Smooth Lie group actions on noncommutative tori. 90i:46116
 Elliott, George A. *see* Bratteli, Ola; et al., 90i:46116
 Goodman, Fred *see* Bratteli, Ola; et al., 90i:46116
 Handelman, David E. Representing polynomials by positive linear functions on compact convex polyhedra. 90e:52005
 Jørgensen, Palle E. T. *see* Bratteli, Ola; et al., 90i:46116
 Kerov, S. V. Combinatorial examples in the theory of AF-algebras. (Russian. English summary) 90j:46062
 Kodaka, Kazuo On automorphisms of irrational rotation algebras. 90g:46081
 — Automorphisms of unital C^* -algebras which are strongly Morita equivalent to irrational rotation C^* -algebras. 90g:46103
 Levi, Roni N. Spectral theory of commuting operators and K-theory. (Russian. English summary) 90k:58218
 Murphy, Gerald J. Simple C^* -algebras and subgroups of \mathbb{Q} . 90g:46104
 O'Donovan, D. P. A tale of three C^* -algebras. 90e:46069
 Paschke, William *see* Anderson, Joel, 90k:46126
 Pitts, David R. On the K_0 groups of nest algebras. 90k:47097
 Poon, Yiu-Tung A K-theoretic invariant for dynamical systems. 90c:46091
 Wagoner, J. B. Topological Markov chains, C^* -algebras, and K_2 . 90j:46059
 Watatani, Y. Index for C^* -subalgebras. 90i:46104

19K33 EXT and K-homology

Items with secondary classifications in 19K33

- Baaj, Saad (with Skandalis, Georges) C^* -algèbres de Hopf et théorie de Kasparov équivariante. (English summary) [Hopf C^* -algebras and equivariant Kasparov theory] 90j:46061
 Connes, Alain (with Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] 90c:58174
 Gong, Gui Hua Smooth extensions for a finite CW complex. 90i:46125
 Ichihara, Ryo An extension of Paschke's theorem and the Mayer-Vietoris type exact sequences. 90d:46096
 Ji, Ronghui (with Kaminker, J.) The K-theory of Toeplitz extensions. 90b:46130
 Julg, Pierre C^* -algèbres associées à des complexes simpliciaux. (English summary) [C^* -algebras associated to simplicial complexes] 90d:46097

- Kaminker, J. *see* Ji, Ronghui, 90b:46130
 Karoubi, Max *see* Connes, Alain, 90c:58174
 Laszlo, George Representations of affine Hecke algebras. 90k:22028
 Rosenberg, Jonathan K-theory of group C^* -algebras, foliation C^* -algebras, and crossed products. 90a:46185
 Schwalbe, Daniel K-theory for discrete subgroups of the Lorentz groups. 90k:22006
 Skandalis, Georges Une notion de nucléarité en K-théorie (d'après J. Cuntz). (English summary) [A notion of nuclearity in K-theory (following J. Cuntz)] 90b:46131
 — *see also* Baaj, Saad, 90j:46061
 Thomsen, Klaus \star Hilbert C^* -modules, KK-theory and C^* -extensions. 90e:46070
 Weidner, Jens KK-groups for generalized operator algebras. I, II. 90k:46153
 Zekri, Richard A new description of Kasparov's theory of C^* -algebra extensions. 90g:46106

19K56 Index theory

Items with secondary classifications in 19K56

- Connes, Alain (with Moscovici, Henri) Conjecture de Novikov et groupes hyperboliques. (English summary) [Hyperbolic groups and the Novikov conjecture] 90e:57048
 — Entire cyclic cohomology of Banach algebras and characters of θ -summable Fredholm modules. 90c:46094
 — Compact metric spaces, Fredholm modules, and hyperfiniteness. 90i:46124
 Douglas, R. G. Elliptic invariants and operator algebras: toroidal examples. 90f:58169
 — (with Hurder, S.; Kaminker, J.) Eta invariants and von Neumann algebras. 90g:58128
 Fack, Thierry Sur la conjecture de Novikov. (English summary) [On Novikov's conjecture] 90e:58150
 Getzler, Ezra (with Jones, John D. S.; Petrack, Scott B.) Loop spaces, cyclic homology and the Chern character. 90g:58124
 Haskell, Peter Direct limits in an equivariant K theory defined by proper cocycles. 90g:58126
 Hilsaum, Michel (with Skandalis, Georges) Morphismes K-orientés d'espaces de feuilles et fonctorialité en théorie de Kasparov (d'après une conjecture d'A. Connes). (English summary) [K-oriented morphisms of spaces of leaves and functoriality in Kasparov theory (after a conjecture of A. Connes)] 90a:58169
 Hurder, S. *see* Douglas, R. G.; et al., 90g:58128
 Jaffe, Arthur (with Lesniewski, Andrzej) Supersymmetric quantum fields and infinite-dimensional analysis. 90k:81104
 Jones, John D. S. *see* Getzler, Ezra; et al., 90g:58124
 Julg, Pierre Indice relatif et K-théorie bivalente de Kasparov. (English summary) [Relative index and Kasparov's bivalent K-theory] 90c:58175
 Kaminker, J. Secondary invariants for elliptic operators and operator algebras. 90g:58127
 — *see also* Douglas, R. G.; et al., 90g:58128
 Lesniewski, Andrzej *see* Jaffe, Arthur, 90k:81104
 Mori, Keiichi Discrete series representations and K-theory of Hilbert C^* modules. 90g:22019
 Moscovici, Henri *see* Connes, Alain, 90e:57048
 Petrack, Scott B. *see* Getzler, Ezra; et al., 90g:58124
 Phillips, N. Christopher Equivariant K-theory for proper actions and C^* -algebras. 90a:46182
 — Equivariant K-theory for proper actions. II. Some cases in which finite-dimensional bundles suffice. 90a:46183
 Rosenberg, Jonathan Applications of analysis on Lipschitz manifolds. 90e:57034
 — (with Weinberger, Shmuel) Higher G-indices and applications. 90f:58170
 Skandalis, Georges *see* Hilsaum, Michel, 90a:58169
 Takai, Hiroshi Baum-Connes conjectures and their applications. 90b:58259
 Troitskii, E. V. An exact K-cohomology C^* -index formula. II. An index theorem and its applications. 90j:58147
 Weinberger, Shmuel *see* Rosenberg, Jonathan, 90f:58170

19K99 None of the above, but in this section

Items with secondary classifications in 19K99

- Fox, Jeff (with Haskell, Peter) A new proof of the K-amenability of $SU(1, 1)$. 90a:46180
 Haskell, Peter *see* Fox, Jeff, 90a:46180
 Hu, Chuang A generalization of K-theory for complex Banach algebras. 90b:46135
 Jaffe, Arthur (with Lesniewski, Andrzej; Osterwalder, Konrad) Quantum K-theory. I. The Chern character. 90a:58170
 Ji, Ronghui On the smoothed Toeplitz extensions and K-theory. 90m:46121
 Jollissaint, Paul K-theory of reduced C^* -algebras and rapidly decreasing functions on groups. 90j:22004
 Lesniewski, Andrzej *see* Jaffe, Arthur; et al., 90a:58170
 Muhly, Paul S. (with Putnam, Ian F.; Xia, Jingbo) Contributions to the K-theory of C^* -algebras of Toeplitz and singular integral operators. 90a:47070
 Nest, Ryszard Cyclic cohomology of noncommutative tori. 90c:46089
 — Cyclic cohomology of crossed products with \mathbb{Z} . 90c:46088
 Osterwalder, Konrad *see* Jaffe, Arthur; et al., 90a:58170
 Putnam, Ian F. The C^* -algebras associated with minimal homeomorphisms of the Cantor set. 90a:46184
 — *see also* Muhly, Paul S.; et al., 90a:47070
 Suzuki, Haruo A note in K-theory of some C^* -algebras. 90c:46092
 Van Daele, A. A note on the K-group of a graded Banach algebra. 90d:46102
 Xia, Jingbo *see* Muhly, Paul S.; et al., 90a:47070

19Lxx Topological K-theory [see also 55N15, 55R50, 55S25]

19L10 Riemann-Roch theorems, Chern characters

Items with secondary classifications in 19L10

- Baum, Paul (with Connes, Alain) Chern character for discrete groups. 90e:58149
 Connes, Alain *see* Baum, Paul, 90e:58149
 Futaki, Akito (with Tsuboi, Kenji) On some integral invariants, Lefschetz numbers and induction maps. 90e:58148
 Quillen, Daniel Algebra cochains and cyclic cohomology. 90j:18008
 Thomason, R. W. Survey of algebraic vs. étale topological K -theory. 90h:14029
 Tsuboi, Kenji *see* Futaki, Akito, 90e:58148

19L20 J -homomorphism, Adams operations [see also 55Q50]

Items with secondary classifications in 19L20

- Ghazal, Tahsin A new example in K -theory of loopspaces. 90h:55006
 Knapp, K. Stably spherical classes in the K -homology of a finite group. 90a:55012
 Kôno, Susumu (with Tamamura, Akie) J -groups of suspensions of stunted lens spaces mod 4. 90m:55014
 Tamamura, Akie *see* Kôno, Susumu, 90m:55014

19L47 Equivariant K -theory [see also 55N91, 55P91, 55Q91, 55R91, 55S91]

Items with secondary classifications in 19L47

- Baum, Paul (with Connes, Alain) Chern character for discrete groups. 90e:58149
 Connes, Alain *see* Baum, Paul, 90e:58149
 Prieto, Carlos The K -theory of diagrams. (Spanish) 90d:55007
 Ulrich, Hanno \star Fixed point theory of parametrized equivariant maps. 90h:57045

19L64 Computations, geometric applications

Items with secondary classifications in 19L64

- Ahn, Seung Ho *see* Lee, Ke An; et al., 90a:55013
 Ajtenaj, M. O. Some results on the real K -theory of certain homogeneous spaces. 90a:55028
 Costinescu, Cristian Nicolae The Z_2 -graded structure of $KO^*(Sp(n))$ groups. (Romanian) 90d:55006
 Hegenbarth, Friedrich On the K -theory of the classifying spaces of the general linear groups over finite fields. 90e:55017
 Jeon, Won-Kee *see* Lee, Ke An; et al., 90a:55013
 Karoubi, Max Cyclic homology and characteristic classes of bundles with additional structures. 90d:58149
 Lee, Ke An (with So, Kwangho; Jeon, Won-Kee; Ahn, Seung Ho) Computations of some $\tilde{K}_R(S^n)$ and $\tilde{K}_R(P_3(R))$. 90a:55013
 Markl, Martin The real K -ring of some CW-complexes of small dimension. 90a:55014
 So, Kwangho *see* Lee, Ke An; et al., 90a:55013
 Yamaguchi, Atsushi Morava K -theory of double loop spaces of spheres. 90e:55009

19L99 None of the above, but in this section

Items with secondary classifications in 19L99

- Baker, Andrew James Some families of operations in Morava K -theory. 90d:55030
 tom Dieck, Tammo The Artin-Hasse logarithm for λ -rings. 90d:55031
 Fesenko, I. B. K -groups of a multidimensional local field. 90e:11089
 Smith, Victor \star Topological methods in Galois representation theory. 90f:12005

19M05 Miscellaneous applications of K -theory

Items with secondary classifications in 19M05

- Burghela, Dan A localization theorem for functional S^1 -spaces. 90d:55010
 Freitas, Raphael K -théorie réelle des variétés de Stiefel quaternioniques. (English summary) [KO-theory of quaternionic Stiefel manifolds] 90j:55009
 Khodolov, A. N. The umbral calculus on many-valued formal groups, and Adams projectors in K -theory. 90e:55010
 Laitinen, Erkki (with Lück, Wolfgang) Equivariant Lefschetz classes. 90j:55005
 Lück, Wolfgang *see* Laitinen, Erkki, 90j:55005
 Morimoto, Masaharu Bak groups and equivariant surgery. 90d:57037
 Phillips, N. Christopher \star Equivariant K -theory for proper actions. 90g:46105

20-XX Group theory and generalizations

20-01 Elementary exposition; textbooks

- Armstrong, M. A. \star Groups and symmetry. 90b:20001
 Cheng, Yungchen Decompositions of U -groups. 90h:20001
 Macdonald, Ian D. \star The theory of groups. 90a:20001
 Rédei, László \star Endliche p -Gruppen. (German) [Finite p -groups] 90i:20001

Items with secondary classifications in 20-01

- Nagao, Hiroshi \star Daisugaku. (Japanese) [Algebra] 90h:00001
 — (with Tsushima, Yukio) \star Representations of finite groups. 90h:20008
 (Reid, Miles) *see* Shafarevich, I. R., 90k:00010
 Shafarevich, I. R. \star Noțiunile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] 90k:00009
 — \star Algebra. I. 90k:00010
 (Sislian, Jean) *see* Smirnov, Vladimir Ivanovich, 90k:00002a
 Smirnov, Vladimir Ivanovich \star Cours de mathématiques supérieures. Tome III. Première partie. (French) [Course of higher mathematics. Vol. III. Part I] 90k:00002a
 (Spircu, T.) *see* Shafarevich, I. R., 90k:00009
 Tsushima, Yukio *see* Nagao, Hiroshi, 90h:20008
 Yale, Paul B. \star Geometry and symmetry. 90g:51003

20-02 Advanced exposition (research surveys, monographs, etc.)

- Brown, Kenneth S. \star Buildings. 90e:20001
 Carter, R. W. \star Simple groups of Lie type. 90g:20001
 Curtis, Charles W. (with Reiner, Irving) \star Methods of representation theory. Vol. I. 90k:20001
 (Dieudonné, Jean) *see* Hahn, Alexander J., 90i:20002
 Ellis, G. J. Crossed modules. 90d:20001
 Fine, Benjamin \star Algebraic theory of the Bianchi groups. 90h:20002
 Hahn, Alexander J. (with O'Meara, O. Timothy) \star The classical groups and K -theory. 90i:20002
 Higman, Graham (with Scott, Elizabeth A.) \star Existentially closed groups. 90a:20002
 O'Meara, O. Timothy *see* Hahn, Alexander J., 90i:20002
 Putcha, Mohan S. \star Linear algebraic monoids. 90a:20003
 Reiner, Irving *see* Curtis, Charles W., 90k:20001
 Roman, M. A. \star Lectures on buildings. 90j:20001
 Scott, Elizabeth A. *see* Higman, Graham, 90a:20002

Items with secondary classifications in 20-02

- Curtis, Charles W. (with Reiner, Irving) \star Representation theory of finite groups and associative algebras. 90g:16001
 Reiner, Irving *see* Curtis, Charles W., 90g:16001

20-03 Historical (must also be assigned at least one classification number from Section 01)

- (Berman, S. D.) *see* Karpilovsky, Gregory, 90g:20002
 Karpilovsky, Gregory Berman's contributions to group representations over fields. 90g:20002

Items with secondary classifications in 20-03

- (Berman, S. D.) *see* Lichtman, Alexander I., 90g:20010 and Sandling, Robert, 90h:20013
 Brigaglia, Aldo The introduction of modern algebra in Italy. (Italian) 90a:01042
 Cassinet, Jean Paolo Ruffini (1765–1822): la résolution algébrique des équations et les groupes de permutations. [Paolo Ruffini (1765–1822): the algebraic solution of equations and permutation groups] 90d:01030
 Curzio, Mario Guido Zappa and group theory. (Italian) 90h:01068
 Göbel, Rüdiger Helmut Ulm: his work and its impact on recent mathematics. 90e:01035
 Gorenstein, Daniel The classification of the finite simple groups, a personal journey: the early years. 90g:01031
 Lichtman, Alexander I. S. D. Berman's contribution to the theory of integral representations of finite groups. 90g:20010
 Mader, A. Heinz Prüfer and his papers on abelian groups. 90f:01035
 Miyake, Katsuya A note on the arithmetic background to Frobenius' theory of group characters. 90k:11152
 (Prüfer, Heinz) *see* Mader, A., 90f:01035
 (Ruffini, Paolo) *see* Cassinet, Jean, 90d:01030
 Sandling, Robert Berman's work on units in group rings. 90k:20013
 (Ulm, Helmut) *see* Göbel, Rüdiger, 90e:01035
 (Zappa, Guido) *see* Curzio, Mario, 90h:01068

20-04 Explicit machine computation and programs (not the theory of computation or programming)

- Balasubramanian, K. *see* Lin, Xiaoyu, 90m:20001
 Butler, Gregory (with Cannon, John J.) Computing in permutation and matrix groups. III. Sylow subgroups. 90i:20003
 Cannon, John J. *see* Butler, Gregory, 90i:20003
 Chen, Bing-Qing *see* Ping, Jia Lun; et al., 90h:20003
 Chen, Jin Quan *see* Ping, Jia Lun; et al., 90h:20003
 Liu, Xiaoyu (with Balasubramanian, K.) Computer generation of character tables of generalized wreath product groups. 90m:20001
 Newman, M. F. (with O'Brien, E. A.) A CAYLEY library for the groups of order dividing 128. 90h:20002
 O'Brien, E. A. *see* Newman, M. F., 90h:20002
 Ping, Jia Lun (with Zheng, Qing Rong; Chen, Bing-Qing; Chen, Jin Quan) Computer generated subgroup-symmetry adapted irreducible representations and CG coefficients of space groups by the eigenfunction method. 90h:20003
 Sangróniz, J. *see* Vera López, Antonio, 90d:20002
 Vera López, Antonio (with Sangróniz, J.) An algorithm for computing the conjugacy vector of a group. (Spanish. English summary) 90d:20002
 Zheng, Qing Rong *see* Ping, Jia Lun; et al., 90h:20003
 Zhou, Tai Jin A general method for finding the projection operators of point groups using a computer program. (Chinese. English summary) 90a:20004

Items with secondary classifications in 20-04

- Balasubramanian, K. *see* Liu, Xiaoyu, 90a:20012
 Brown, Cynthia (with Cooperman, Gene; Finkelstein, Larry) Solving permutation problems using rewriting systems. 90k:20005
 Cooperman, Gene *see* Brown, Cynthia; et al., 90k:20005
 Finkelstein, Larry *see* Brown, Cynthia; et al., 90k:20005
 Glasby, S. P. Constructing normalisers in finite soluble groups. 90f:68092
 — Intersecting subgroups of finite soluble groups. 90f:68093
 Holt, Derek F. Computation of cohomology groups and enumeration of finite perfect groups. (see 90m:00036)
 James, Rodney (with Newman, M. F.; O'Brien, E. A.) The groups of order 128. 90j:20050
 Liu, Xiaoyu (with Balasubramanian, K.) Computer generation of the character tables of the symmetric groups (S_n). 90e:20012
 Newman, M. F. *see* James, Rodney; et al., 90j:20050
 O'Brien, E. A. *see* James, Rodney; et al., 90j:20050
 Pittaluga, Marilena (with Strickland, Elisabetta) A computer oriented algorithm for the determination of the dimension and character of a modular irreducible $SL(n, K)$ -module. 90d:20027
 Rackmore, Daniel Computation of Fourier transforms on the symmetric group. 90i:20013
 Strickland, Elisabetta *see* Pittaluga, Marilena, 90d:20027

20-06 Proceedings, conferences, etc.

- (Borevich, Z. I.) *see* Structural properties of algebraic systems, 90h:20005
 (Fuchs, László) *see* Abelian group theory, 90a:20005
 (Göbel, Rüdiger) *see* Abelian group theory, 90a:20005
 (Ito, Masami) *see* Proceedings: Symposium on Semigroups, 90k:20003
 (Katsura, Masashi) *see* Proceedings: Symposium on Semigroups, 90k:20003
 (Kim, A. C.) *see* Groups—Korea 1988, 90h:20004
 (Kobayashi, Yajū) *see* Proceedings: Symposium on Semigroups, 90e:20002
 (Lajos, S.) *see* Notes on algebraic systems, 90k:20002
 (Lyapin, E. S.) *see* Semigroup studies of mappings, 90k:20004
 (Neumann, B. H.) *see* Groups—Korea 1988, 90h:20004
 (Schultz, Phillip) *see* Abelian group theory, 90a:20005
 (Shemetkov, L. A.) *see* Problems in algebra, 90d:20003
 (Szép, J.) *see* Notes on algebraic systems, 90k:20002

Items listed otherwise than by author

- Abelian group theory ★ Abelian group theory. 90a:20005
 All-Union Symposium:
 Group Theory ★ Вспомогательные. Вып. 4. (Russian) [Problems in algebra. No. 4] 90d:20003
 Conference:
 Abelian Group Theory ★ Abelian group theory. 90a:20005
 Group Theory ★ Groups—Korea 1988. 90h:20004
 Contemporary Mathematics ★ Abelian group theory. 90a:20005
 Gornel' ★ Вспомогательные. Вып. 4. (Russian) [Problems in algebra. No. 4] 90d:20003
 Groups—Korea 1988 ★ Groups—Korea 1988. 90h:20004
 Kyoto ★ Proceedings of the 13th Symposium on Semigroups. 90k:20003
 Lecture Notes in Mathematics ★ Groups—Korea 1988. 90h:20004
 Notes on algebraic systems ★ Notes on algebraic systems. V. 90k:20002
 Orbits unipotentes et représentations ★ Orbits unipotentes et représentations. I. [Unipotent orbits and representations. I] 90g:20003
 Perth ★ Abelian group theory. 90a:20005
 Problems in algebra ★ Вспомогательные. Вып. 4. (Russian) [Problems in algebra. No. 4] 90d:20003
 Proceedings:
 Symposium on Semigroups ★ Proceedings of the 12th Symposium on Semigroups. 90e:20002
 — ★ Proceedings of the 13th Symposium on Semigroups. 90k:20003
 Pusan ★ Groups—Korea 1988. 90h:20004
 Semigroup studies of mappings ★ Полугрупповые исследования отображений. (Russian) [Semigroup studies of mappings] 90k:20004
 Structural properties of algebraic systems ★ Структурные свойства алгебраических систем. (Russian) [Structural properties of algebraic systems] 90h:20005
 Symposium:
 Semigroups ★ Proceedings of the 12th Symposium on Semigroups. 90e:20002
 — ★ Proceedings of the 13th Symposium on Semigroups. 90k:20003
 Tokushima ★ Proceedings of the 12th Symposium on Semigroups. 90e:20002
 Unipotent orbits and representations ★ Orbits unipotentes et représentations. I. [Unipotent orbits and representations. I] 90g:20003

Items with secondary classifications in 20-06

- (Berman, S. D.) *see* Representation theory, group rings, and coding theory, 90a:00012
 (Bialynicki-Birula, A.) *see* Group actions and invariant theory, 90e:14002
 (Carrell, J.) *see* Group actions and invariant theory, 90e:14002
 (Fossum, R.) *see* Invariant theory, 90a:14002
 (Göbel, Rüdiger) *see* Abelian group theory, 90d:20093
 (Gruenberg, K. W.) *see* Hall, Philip¹, 90b:01108
 (Haboush, W.) *see* Invariant theory, 90a:14002
 Hall, Philip¹ ★ The collected works of Philip Hall. 90b:01108
 (Hochster, M.) *see* Invariant theory, 90a:14002
 (Isaacs, M.) *see* Representation theory, group rings, and coding theory, 90a:00012
 (Lakshmibai, V.) *see* Invariant theory, 90a:14002
 (Lichtman, Alexander I.) *see* Representation theory, group rings, and coding theory, 90a:00012
 (Passman, D. S.) *see* Representation theory, group rings, and coding theory, 90a:00012
 (Pin, J.-E.) *see* Formal properties of finite automata and applications, 90k:68006
 (Roseblade, J. E.) *see* Hall, Philip¹, 90b:01108
 (Russell, P.) *see* Group actions and invariant theory, 90e:14002

- (Selgaj, Sudarshan K.) *see* Representation theory, group rings, and coding theory, 90a:00012
 (Sloane, N. J. A.) *see* Representation theory, group rings, and coding theory, 90a:00012
 (Snow, Dennis M.) *see* Group actions and invariant theory, 90e:14002
 (Stanton, Dennis) *see* Invariant theory and tableaux, 90h:15040
 (Tangora, Martin C.) *see* Computers in algebra, 90m:00036
 (Walker, Elbert A.) *see* Abelian group theory, 90d:20093
 (Zassenhaus, H.) *see* Representation theory, group rings, and coding theory, 90a:00012

Items listed otherwise than by author

- Abelian group theory ★ Abelian group theory. 90d:20093
 Chicago, IL ★ Computers in algebra. 90m:00036
 Computers in algebra ★ Computers in algebra. 90m:00036
 Conference:
 Abelian Group Theory ★ Abelian group theory. 90d:20093
 Computers in Algebra ★ Computers in algebra. 90m:00036
 Group Actions and Invariant Theory ★ Group actions and invariant theory. 90e:14002
 Contemporary Mathematics ★ Representation theory, group rings, and coding theory. 90a:00012
 — ★ Invariant theory. 90a:14002
 Denton, TX ★ Invariant theory. 90a:14002
 Formal properties of finite automata and applications ★ Formal properties of finite automata and applications. 90k:68006
 Group actions and invariant theory ★ Group actions and invariant theory. 90e:14002
 Invariant theory ★ Invariant theory. 90a:14002
 Invariant theory and tableaux ★ Invariant theory and tableaux. 90h:15040
 Lecture Notes in Computer Science ★ Formal properties of finite automata and applications. 90k:68006
 Meeting:
 American Mathematical Society ★ Invariant theory. 90a:14002
 Minneapolis, MN ★ Invariant theory and tableaux. 90h:15040
 Montreal, PQ ★ Group actions and invariant theory. 90e:14002
 Oberwolfach ★ Abelian group theory. 90d:20093
 Quantum groups and the Robinson-Schensted correspondences ★ Ryoshigun to Robinson-Schensted taio. (Japanese) [Quantum groups and the Robinson-Schensted correspondences] 90k:05008
 Ramatuelle ★ Formal properties of finite automata and applications. 90k:68006
 Representation theory, group rings, and coding theory ★ Representation theory, group rings, and coding theory. 90a:00012
 School:
 Theoretical Computer Science ★ Formal properties of finite automata and applications. 90k:68006
 Session:
 Invariant Theory ★ Invariant theory. 90a:14002
 Symposium:
 Quantum Groups and the Robinson-Schensted Correspondences ★ Ryoshigun to Robinson-Schensted taio. (Japanese) [Quantum groups and the Robinson-Schensted correspondences] 90k:05008
 Workshop:
 Invariant Theory and Tableaux ★ Invariant theory and tableaux. 90h:15040

20Axx Foundations

20A05 Axiomatics and elementary properties

- Bergmann, Horst Eine Bemerkung zu den zyklischen Gruppen. [A remark on cyclic groups] 90j:20002
 Cieślak, W. (with Zajac, József) Polar decomposition of involutive groups. (Russian and Polish summaries) 90g:20004
 Crippa, Jane de O. A condition for a finite group to be cyclic. (Portuguese. English summary) 90f:20001
 Xian, Heng Nong A simple proof of a famous theorem in abstract algebra. (Chinese) (Not in MR)
 Zajac, József *see* Cieślak, W., 90g:20004
 Items with secondary classifications in 20A05
 Kapur, Deepak (with Zhang, Hantao) Proving equivalence of different axiomatizations of free groups. 90a:20048
 Zhang, Hantao *see* Kapur, Deepak, 90a:20048

20A10 Metamathematical considerations {For word problems, see 20F10.}

- Bayasgalan, B. (with Vazhenin, Yu. M.) Decidability of theories of classes of powers of semigroups. 90f:20002
 Vazhenin, Yu. M. *see* Bayasgalan, B., 90f:20002
 Items with secondary classifications in 20A10
 Luo, Li Bo The upper bound complexity of abelian group theory. 90m:03076
 Meirembekov, K. A. Non-two-cardinal theories of abelian groups and fields. (Russian) 90a:03044

20A15 Applications of logic to group theory

- Oger, Francis Elementary equivalence of a polycyclic-by-finite group and its profinite completion. 90f:20003
 Items with secondary classifications in 20A15
 Baudisch, Andreas On the model theory of free metabelian groups of bounded exponent. 90j:03084

Coverford, Leo P., Jr. (with Edmunds, Charles C.) The solvability of quadratic equations in free products of free groups with cyclic amalgamation. 90h:20032

Corredor, Luis Jaime Bad groups of finite Morley rank. 90k:20074

Drobotun, B. N. see Goncharov, S. S., 90j:20049

Edmunds, Charles C. see Coverford, Leo P., Jr., 90h:20032

Goncharov, S. S. (with Drobotun, B. N.) The algorithmic dimension of nilpotent groups. 90j:20049

Haddad, Lahib (with Sureau, Yves) Les cogroupes et les D -hypergroupes. (English summary) [Cogroups and D -hypergroups] 90a:20144

Higman, Graham (with Scott, Elizabeth A.) \star Existentially closed groups. 90a:20002

Hodges, Wilfrid Categoricity and permutation groups. 90j:03064

Macpherson, Dugald Absolutely ubiquitous structures and \aleph_0 -categorical groups. 90a:03043

Mekler, Alan H. (with Shelah, Saharon) Diamond and λ -systems. 90i:03055

Myasnikov, A. G. (with Remeslennikov, V. N.) Elementary equivalence of free operator groups with a length function and with a finitely generated group of operators. (Russian) 90a:03050

— (with Remeslennikov, V. N.) \star Допустимые множества в теории групп. (Russian) [Admissible sets in group theory] 90j:03065

Nesin, Ali Nonsolvable groups of Morley rank 3. 90k:20073

Pillay, A. An application of model theory to real and p -adic algebraic groups. 90m:03061

Remeslennikov, V. N. see Myasnikov, A. G., 90a:03050 and 90j:03065

Scott, Elizabeth A. see Higman, Graham, 90a:20002

Shelah, Saharon see Mekler, Alan H., 90i:03055

Sureau, Yves see Haddad, Lahib, 90a:20144

Tanaka, Katsumi Some local properties of ω -stable groups. 90a:03045

— Nonabelian groups of Morley rank 2. 90a:03051

Tsuboi, Akito On a property of ω -stable solvable groups. 90a:03046

— Solvable and nilpotent structures. 90j:03066

Zilber, B. I. Hereditarily transitive groups and quasi-Urbanik structures. (Russian) 90a:03052

20A99 None of the above, but in this section

Items with secondary classifications in 20A99

Cieslak, W. (with Zajac, József) Polar decomposition of involutive groups. (Russian and Polish summaries) 90j:20004

Gorbachuk, O. L. (with Mikhailov'ska, N. M.) Axiomatization of classes of abelian groups. (Ukrainian. Russian summary) (Not in MR)

Mikhailov'ska, N. M. see Gorbachuk, O. L., (Not in MR)

Zajac, József see Cieslak, W., 90j:20004

20Bxx Permutation groups

20B05 General theory for finite groups

Aschbacher, Michael (with Guralnick, R.) On abelian quotients of primitive groups. 90a:20006

Bonisoli, Arrigo Planar permutation groups. 90d:20004

Brown, Cynthia (with Cooperman, Gene; Finkelstein, Larry) Solving permutation problems using rewriting systems. 90k:20005

— (with Finkelstein, Larry; Purdom, Paul Walton, Jr.) A new base change algorithm for permutation groups. 90j:20003

Cameron, Peter J. (with Deza, M.; Frankl, Peter) Intersection theorems in permutation groups. 90f:20004

Chermak, Andrew (with Delgado, Alberto L.) A measuring argument for finite groups. 90c:20001

Cooperman, Gene (with Finkelstein, Larry; Purdom, Paul Walton, Jr.) Fast group membership using a strong generating test for permutation groups. 90j:20004

— see also Brown, Cynthia; et al., 90k:20005

Delgado, Alberto L. see Chermak, Andrew, 90c:20001

Deza, M. see Cameron, Peter J.; et al., 90f:20004

Finkelstein, Larry see Brown, Cynthia; et al., 90j:20003; Cooperman, Gene; et al., 90j:20004 and Brown, Cynthia; et al., 90k:20005

Frankl, Peter see Cameron, Peter J.; et al., 90f:20004

Guralnick, R. see Aschbacher, Michael, 90a:20006

Kopylova, T. I. Minimal transitive permutation groups of finite degree. (Russian. English summary) 90m:20002

Lialevicius, Arunas A reciprocity law for symmetric products of G -sets. 90d:20005

Purdom, Paul Walton, Jr. see Brown, Cynthia; et al., 90j:20003 and Cooperman, Gene; et al., 90j:20004

Quattrocchi, Pasquale Planar permutation sets. (Italian. English summary) 90c:20002

Sigrist, François Le théorème de Burnside sur le comptage des orbites et quelques applications. [The Burnside theorem for counting orbits, and some applications] 90m:20003

Items with secondary classifications in 20B05

Kovacs, L. G. Wreath decompositions of finite permutation groups. 90j:20006

Laue, Reinhard Eine konstruktive Version des Lemmas von Burnside. [A constructive version of Burnside's lemma] 90d:20007

Massias, Jean-Pierre (with Nicolas, Jean-Louis; Robin, Guy) Effective bounds for the maximal order of an element in the symmetric group. 90e:11139

Mnukhia, V. B. Reconstruction of disconnected k -orbits of a permutation group. (Russian) 90k:05109

Nicolas, Jean-Louis see Massias, Jean-Pierre; et al., 90e:11139

Robin, Guy see Massias, Jean-Pierre; et al., 90e:11139

Schmutz, Eric Proof of a conjecture of Erdős and Turán. 90d:11111

Tambour, Torbjörn A theorem of Molien type in combinatorics. 90a:05014

Zagaglia Salvi, N. On the solutions of a matrix equation. (Italian summary) 90g:15027

20B07 General theory for infinite groups

Adeleke, S. A. Embeddings of infinite permutation groups in sharp, highly transitive, and homogeneous groups. 90c:20003

Läuchli, Hans (with Neumann, Peter M.) On linearly ordered sets and permutation groups of countable degree. 90a:20007

Neumann, Peter M. see Läuchli, Hans, 90a:20007

Items with secondary classifications in 20B07

Bonisoli, Arrigo Planar permutation groups. 90d:20004

Shelah, Saharon (with Thomas, Simon) Homogeneity of infinite permutation groups. 90j:03051

Thomas, Simon see Shelah, Saharon, 90j:03051

20B10 Characterization theorems

Pankratova, I. E. Strongly transitive representations of finite groups. (Ukrainian. Russian summary) 90j:20005

20B15 Uniprimitive groups

Fomin, A. N. A remark on finite primitive permutation groups. (Russian) 90c:20003

Kovacs, L. G. Wreath decompositions of finite permutation groups. 90j:20006

— Primitive subgroups of wreath products in product action. 90a:20008

Sosmó, Khuda Dino Uniprimitive groups of degree 120. 90c:20004

Items with secondary classifications in 20B15

Mazurov, Viktor Danilovich (with Mazurova, N. P.) The minimal permutation representation of the Thompson group. (Russian) 90i:20019

Mazurova, N. P. see Mazurov, Viktor Danilovich, 90i:20019

Præger, Cheryl E. The inclusion problem for finite primitive permutation groups. 90j:20009

20B20 Multiply transitive finite groups

Faina, Giorgio (with Korchmáros, Gábor) On sharply 3-transitive permutation sets. 90c:20004

Korchmáros, Gábor see Faina, Giorgio, 90c:20004

Items with secondary classifications in 20B20

Bariotti, Adriano (with Strambach, Karl) The geometry of double loops. 90b:51019

Delandtsheer, Anne (with Doyen, Jean) Most block-transitive t -designs are point-primitive. 90d:05034

Doyen, Jean see Delandtsheer, Anne, 90d:05034

Kopylova, T. I. Minimal transitive permutation groups of finite degree. (Russian. English summary) 90m:20002

Matsuhisa, Takashi (with Yamaki, Hiroyoshi) A class of finite groups admitting certain sharp characters. II. 90m:20014

Podufalov, N. D. (γ, γ) -transitive finite projective planes. (Russian) 90g:51006

Strambach, Karl see Bariotti, Adriano, 90b:51019

Yamaki, Hiroyoshi see Matsuhisa, Takashi, 90m:20014

20B22 Multiply transitive infinite groups

Truss, J. K. Infinite permutation groups. I. Products of conjugacy classes. 90c:20004

— Infinite permutation groups. II. Subgroups of small index. 90c:20005

— The group of almost automorphisms of the countable universal graph. 90d:20006

Yoshizawa, Mitsuo On multiply transitive locally finite permutation groups. 90j:20007

Items with secondary classifications in 20B22

Cameron, Peter J. Groups of order-automorphisms of the rationals with prescribed scale type. 90b:20007

Droste, Manfred (with Giraudet, Michèle) Embeddings into simple lattice-ordered groups with different first order theories. 90j:06029

Giraudet, Michèle see Droste, Manfred, 90j:06029

Mosznier, Zsolt Une généralisation d'un résultat de J. Aczél et M. Hosszú sur l'équation de translation. [Generalization of a result of J. Aczél and M. Hosszú concerning the translation equation] 90c:39014

20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [see also 05Bxx, 12F10, 20G40, 20H30, 51-XX]

Biliotti, Mauro (with Korchmáros, Gábor) Collineation groups preserving a unital of a projective plane of odd order. 90i:20005

von Bon, John (with Cohen, Arjeh M.) Linear groups and distance-transitive graphs. 90h:20006

Camina, Alan (with Simons, Johannes) Intertwining automorphisms in finite incidence structures. 90b:20003

Cohen, Arjeh M. see von Bon, John, 90h:20006

Curtis, R. T. Geometric interpretations of the "natural" generators of the Mathieu groups. 90j:20008

Delgado, Alberto L. (with Weiss, Richard Mark) On certain coverings of generalized polygons. 90b:20004

Korchmáros, Gábor see Biliotti, Mauro, 90i:20005

Laue, Reinhard Eine konstruktive Version des Lemmas von Burnside. [A constructive version of Burnside's lemma] 90d:20007

Ostrom, T. G. Correction to: "Two-groups on finite translation planes" [Arch. Math. (Basel) 47 (1986), no. 6, 568-572; MR 87m:20012]. 90k:20006

Rylands, L. J. (with Taylor, D. E.) Rubik's clock. (Not in MR)

- Siemons, Johannes *see* Camina, Alan, 90b:20003
 Taylor, D. E. *see* Rylands, L. J., (Not in MR)
 Wajima, Masayuki A note on the automorphism group of certain polyhedra. 90b:20006
 Weiss, Richard Mark *see* Delgado, Alberto L., 90b:20004
 Zeitler, Herbert Über die Automorphismengruppen endlicher affiner und projektiver Räume. [On the automorphism groups of finite affine and projective spaces] 90b:20005
 Zelikovskii, A. Z. The König problem for abelian permutation groups. (Russian. English summary) 90m:20004

Items with secondary classifications in 20B25

- Arasu, K. T. Singer groups of biplanes of order 25. 90m:05028
 Aschbacher, Michael (with Guralnick, R.) On abelian quotients of primitive groups. 90a:20006
 Atsumi, Tsuyoshi On an inequality of Ray-Chaudhuri and Wilson for t -designs with group action. 90f:05015
 — An elementary proof of Yoshida's inequality for block designs which admit automorphism groups. 90b:05020
 Bachmann, Otto Über projektive Ebenen, die fast fahrenttransitiv sind. (English summary) [On projective planes which are almost flag transitive] 90d:51015
 Barker, G. P. Automorphism groups of algebras of triangular matrices. 90b:16032
 Basile, Alessandro (with Brutti, Paolo) Algebraic structure of the coordinates of a translation transversal design. (Italian) 90b:51006
 Biggs, Norman Girth and residual finiteness. 90c:05105
 Billotti, Mauro (with Jha, Vikram; Johnson, Norman Lloyd¹; Menichetti, Giampaolo) A structure theory for two-dimensional translation planes of order q^2 that admit collineation groups of order q^2 . 90a:51006
 von Bon, John (with Cohen, Arjeh M.; Cuyper, Hans) Graphs related to Held's simple group. 90b:20019
 Brutti, Paolo *see* Basile, Alessandro, 90b:51006
 Cameron, Peter J. Some sequences of integers. 90i:05011
 — (with Frankl, Peter; Kantor, W. M.) Intersecting families of finite sets and fixed-point-free 2-elements. 90c:05004
 Camina, Alan (with Di Martino, L.) Block designs on 196 points. 90g:05032
 — (with Siemons, Johannes) Block transitive automorphism groups of $2-(v, k, 1)$ block designs. 90c:05018
 Cheng, Ying (with Sloane, N. J. A.) Codes from symmetry groups, and a $[32, 17, 8]$ code. 90b:93026
 Cohen, Arjeh M. *see* von Bon, John; et al., 90b:20019
 Conder, Marston (with Lorimer, Peter) Automorphism groups of symmetric graphs of valency 3. 90g:05097
 Cooperstein, Bruce N. A finite flag-transitive geometry of extended G_2 -type. 90b:51009
 Cuyper, Hans *see* von Bon, John; et al., 90b:20019
 Darafsheh, M. R. On commutative nonassociative algebras associated with a group of automorphisms of a 2-design. 90f:17004
 Delandtsheer, Anne Line-primitive automorphism groups of finite linear spaces. 90c:05021
 — (with Doyen, Jean) Most block-transitive t -designs are point-primitive. 90d:05034
 Di Martino, L. *see* Camina, Alan, 90g:05032
 Doyen, Jean *see* Delandtsheer, Anne, 90d:05034
 Dress, Andreas W. M. Towards a classification of transitive group actions on finite metric spaces. 90b:54034
 Frankl, Peter *see* Cameron, Peter J.; et al., 90c:05004
 Gashkov, I. B. (with Sidel'nikov, V. M.) Codes that are connected with a group of linear-fractional transformations. 90d:11137
 Gjergji, Rexhep On symmetric block design $(145, 64, 28)$ with Frobenius group of order 203. (Serbo-Croatian summary) 90d:05035
 Gluck, David Hadamard difference sets in groups of order 64. 90c:05020
 Guralnick, R. *see* Aschbacher, Michael, 90b:20006
 Harada, Koichiro (with Lang, Mong-Lung) Some elliptic curves arising from the Leech lattice. 90g:11072
 Hayden, John L. Elementary abelian Cartesian groups. 90d:20094
 Herzog, A. Zu einem Satz von H. Lüneburg über verallgemeinerte André-Ebenen. [On a theorem of H. Lüneburg on generalized André planes] 90c:51006
 — (with Schulz, Ralph-Hardo) Some new (s, k, λ) -translation transversal designs with nonabelian translation group. 90d:05060
 Ihrig, Edwin C. The structure of the symmetry groups of perfect 1-factorizations of K_{2n} . 90j:05104
 Ito, Noboru Automorphism groups of DRADs. 90a:05025
 Jha, Vikram (with Johnson, Norman Lloyd¹) A characterization of some spreads of order q^3 that admit $GL(2, q)$ as a collineation group. 90a:51007
 — *see also* Billotti, Mauro; et al., 90a:51006
 Johnson, Norman Lloyd¹ Semifield planes of characteristic p admitting p -primitive Baer collineations. 90b:51012
 — *see also* Billotti, Mauro; et al., 90a:51006 and Jha, Vikram, 90a:51007
 Joshi, Vinod *see* Narayana Rao, M. L.; et al., 90i:51012
 Kantor, W. M. *see* Cameron, Peter J.; et al., 90c:05004
 Kegel, O. H. Automorphisms. 90a:20055
 Kennedy, John W. (with McKeon, K. A.; Palmer, Edgar M.; Robinson, Robert W.) Asymptotic number of symmetries in locally restricted trees. 90k:05013
 Key, J. D. (with Rostom, N. K. A.) A characterisation of some finite inverse planes. 90c:51009
 Kilmer, Dirk Über die Projektivitätengruppen von Semikörpern ebenen gerader Ordnung. (English summary) [On the groups of projectivities of semifields of even order] 90f:51011
 Krstić, Sava Actions of finite groups on graphs and related automorphisms of free groups. 90i:20037
 Kuppaswamy Rao, K. *see* Narayana Rao, M. L.; et al., 90i:51012
 Labelle, Jacques (with Yeh, Yeong Nan) The relation between Burnside rings and combinatorial species. 90c:05016
 Lang, Mong-Lung *see* Harada, Koichiro, 90g:11072
 Lorimer, Peter *see* Conder, Marston, 90g:05097

- Lozanov, Chavdar *see* Russeva, Assia P., 90g:51017
 McKeon, K. A. *see* Kennedy, John W.; et al., 90k:05013
 Menichetti, Giampaolo *see* Billotti, Mauro; et al., 90a:51006
 Muehlin, V. B. Action of groups on lattices and the reconstruction problem. (Russian) 90a:06009
 Moorhouse, G. Eric $PSL(2, q)$ as a collineation group of projective planes of small order. 90b:51013
 Mukai, Shigeru Finite groups of automorphisms of $K3$ surfaces and the Mathieu group. 90b:32053
 Narayana Rao, M. L. (with Kuppaswamy Rao, K.; Joshi, Vinod) A translation plane of order 49 with 48 ideal points in a single orbit. 90f:51012
 — (with Satyanarayana, K.; Vithal Rao, G.) On a class of derived translation planes of square order. 90c:51008
 Palmer, Edgar M. *see* Kennedy, John W.; et al., 90k:05013
 Praeger, Cheryl E. Inflation of graphs with large automorphism groups. I. 90d:05116
 — Highly arc transitive digraphs. 90m:05064
 — A note on group Latin squares. 90g:05052
 Prince, Alan R. The Hall-Janko group as a collineation group of an infinite projective plane. 90a:51004
 Robinson, Robert W. *see* Kennedy, John W.; et al., 90k:05013
 Rostom, N. K. A. *see* Key, J. D., 90c:51009
 Russeva, Assia P. (with Lozanov, Chavdar) On the geometry of a cyclic subgroup of the Suzuki group $Sz(8)$. (Bulgarian summary) 90g:51017
 Satyanarayana, K. *see* Narayana Rao, M. L.; et al., 90c:51008
 Schulz, Ralph-Hardo *see* Herzog, A., 90d:05060
 Sidel'nikov, V. M. *see* Gashkov, I. B., 90d:11137
 Siemons, Johannes *see* Camina, Alan, 90b:20005
 Sloane, N. J. A. *see* Cheng, Ying, 90b:93026
 Stroth, G. The nonexistence of certain Tits geometries with affine diagram. 90g:20028
 Vithal Rao, G. *see* Narayana Rao, M. L.; et al., 90c:51008
 Yeh, Yeong Nan *see* Labelle, Jacques, 90c:05016

20B27 Infinite automorphism groups [see also 12F10]

- Cameron, Peter J. Groups of order-automorphisms of the rationals with prescribed scale type. 90b:20007
 Droste, Manfred (with Holland, W. C.; Macpherson, Dugald) Automorphism groups of infinite semilinear orders. I, II. 90b:20006
 Garit, V. P. (with Zamorzaev, A. M.) On a subgroup of finite index in an n -dimensional discrete group of affine transformations. (Russian) 90c:20006
 Holland, W. C. *see* Droste, Manfred; et al., 90b:20006
 Macpherson, Dugald *see* Droste, Manfred; et al., 90b:20006
 Schlichting, Günter On the periodicity of group operations. 90d:20008
 Zamorzaev, A. M. *see* Garit, V. P., 90c:20006

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- Alpers, Burkhard Zum Transitivitätsverhalten metrischer Kollineationsgruppen. (English summary) [On the transitivity behavior of metric collineation groups] 90i:51017
 Biggs, Norman Confluence of some presentations associated with graphs. 90d:20058
 Bredikhin, D. A. On the simultaneous characterization of automorphism groups and congruence lattices of universal algebras. (Russian) (see 90d:00034)
 Coleman, A. J. Killing and the Coxeter transformation of Kac-Moody algebras. 90b:17040
 Droste, Manfred k -homogeneous relations and tournaments. 90m:03072
 Hodges, Wilfrid Categoricity and permutation groups. 90j:03064
 Kemmerich, Susanne (with Richter, M. M.) Bemerkungen über die Automorphismengruppe von homogenen Boole'schen Algebren. [Remarks on the automorphism group of homogeneous Boolean algebras] 90e:06027
 Marmazeer, V. I. The group of automorphisms of the lattice of convex sublattices. (Russian. English summary) 90f:06018
 Mäurer, Helmut (with Siemon, H.) On the automorphisms of normal subgroups of the collineation group of affine spaces. 90a:51003
 Monk, J. Donald Automorphism groups. (see 90k:06003)
 Nebbia, Claudio Amenability and Kunze-Stein property for groups acting on a tree. 90f:43004
 Richter, M. M. *see* Kemmerich, Susanne, 90e:06027
 Roitman, Judy Superatomic Boolean algebras. (see 90k:06004)
 Rubin, Matatyahu On the reconstruction of Boolean algebras from their automorphism groups. (see 90k:06003)
 — *see also* Štěpánek, Petr, (90k:06003)
 Seifert, Norbert Nilpotent groups and transitive graphs. 90a:05096
 Siemon, H. *see* Mäurer, Helmut, 90a:51003
 Stark, Christopher W. Convexity and root closure in negatively curved manifolds. 90b:57040
 Štěpánek, Petr Embeddings and automorphisms. (see 90k:06003)
 — (with Rubin, Matatyahu) Homogeneous Boolean algebras. (see 90k:06003)
 Sushchanskii, V. I. Standard subgroups of the isometry group of the metric space of p -adic integers. (Ukrainian. Russian summary) 90k:11160
 Tross, J. K. The group of almost automorphisms of the countable universal graph. 90d:20006
 Wagoner, J. B. Markov partitions and K_2 . 90d:28022

20B30 Symmetric groups, general

- Hsu, D. Frank (with Lyuu, Yuh-Dauh) Lower bounds on sphere partition in symmetric groups. 90e:20005
 Katriel, Jacob (with Paldus, J.) Explicit expression for the product of the class of transpositions with an arbitrary class of the symmetric group. 90k:20007
 Lyuu, Yuh-Dauh *see* Hsu, D. Frank, 90e:20005
 Moran, Gad Products of involution classes in infinite symmetric groups. 90c:20007
 Paldus, J. *see* Katriel, Jacob, 90k:20007

Items with secondary classifications in 20B30

- Brenner, J. L. (with List, R. J.) Applications of partition theory to groups: covering the alternating group by products of conjugacy classes. 90k:20029
 Goryun-Beauchamps, D. Standard Young tableaux of height 4 and 5. 90b:05013
 List, R. J. see Brenner, J. L., 90k:20029
 Olsson, Jörn B. On the p -blocks of symmetric and alternating groups and their covering groups. 90k:20022
 Schacher, Murray (with Sonn, Jack) Double covers of the symmetric groups as Galois groups over number fields. 90a:11131
 Shelah, Saharon (with Thomas, Simon) Subgroups of small index in infinite symmetric groups. II. 90b:03065
 Sonn, Jack Double covers of the alternating and symmetric groups as Galois groups over number fields. 90a:11132
 — see also Schacher, Murray, 90a:11131
 Stembridge, John R. The Bruhat order and iterated exponentials. 90b:06006
 Thomas, Simon see Shelah, Saharon, 90b:03065

20B35 Subgroups of symmetric groups

- Berkovich, Ya. G. On p -subgroups of finite symmetric and alternating groups. 90d:20009
 — On solvable subgroups of the symmetric group. 90d:20010
 Delpechère, Jean-François Sous-groupes hyper-résolubles transitifs du groupe symétrique de degré n . (English summary) [Supersolvable transitive subgroups of the symmetric group of degree n] 90m:20005
 Drápal, Aleš (with Kepka, Tomáš) Alternating groups and Latin squares. 90k:20008
 Kepka, Tomáš see Drápal, Aleš, 90k:20008
 Luo, Cheng Jie Maximality of the generalized linear transformation groups in the alternating groups. (Chinese. English summary) 90c:20008
 Luo, Zhu Kai A class of maximal basic groups in many-valued logics—a class of maximal subgroups of the symmetric and alternating groups. (Chinese) 90d:20011
 Praeger, Cheryl E. The inclusion problem for finite primitive permutation groups. 90j:20009
 Seger, Yaov The overgroups of the solvable subgroup of maximal order in S_n . 90f:20005
 Shelah, Saharon (with Thomas, Simon) Implausible subgroups of infinite symmetric groups. 90a:20009
 Thomas, Simon see Shelah, Saharon, 90a:20009

Items with secondary classifications in 20B35

- Aschbacher, Michael (with Guralnick, R.) On abelian quotients of primitive groups. 90a:20006
 Bashirov, R. E. ★ Комбинаторная модель построения перестраиваемых несимметрических многокаскадных коммутационных сетей. (Russian) [A combinatorial model for the construction of rearrangeable nonsymmetric multistage commutation networks] 90f:68011
 Guralnick, R. see Aschbacher, Michael, 90a:20006
 Labelle, Jacques (with Yeh, Yeong Nan) The relation between Burnside rings and combinatorial species. 90c:05016
 Sehgal, Surinder K. On the normalizer of a group in the Cayley representation. 90g:20027
 Yeh, Yeong Nan see Labelle, Jacques, 90c:05016
 Zilber, B. I. Hereditarily transitive groups and quasi-Urbanik structures. (Russian) 90a:03052

20B99 None of the above, but in this section

- Simmons, Johannes (with Wagner, Ascher) On the relationship between the lengths of orbits on k -sets and $(k+1)$ -sets. 90m:20006
 Wagner, Ascher see Simmons, Johannes, 90m:20006
 White, Arthur T. Ringing the cosets. 90a:20010
 — Ringing the cosets. II. 90a:20011

Items with secondary classifications in 20B99

- Chen, Hui (with Jing, Feng Jie) Compound mappings and compound permutations. (Chinese. English summary) 90f:04001
 Cusick, Larry W. Free actions on spaces with nonzero Euler characteristic. 90j:57033
 Jing, Feng Jie see Chen, Hui, 90f:04001
 Morozov, A. S. Permutations and implicit definability. 90d:03085
 Pillay, A. A note on subgroups of the automorphism group of a saturated model, and regular types. 90g:03038
 Rong, Yao Tang Systems of generators for the compound symmetric group $S_{m,n}^c$ and the compound alternating group $A_{m,n}^c$. (Chinese. English summary) 90j:20070
 Volenc, Vladimir Faithful homogeneous spaces over commutative groups and TST-spaces. 90f:20109

20Cxx Representation theory of groups [see also 19A22 (for representation rings and Burnside rings)]

- Nagao, Hiroshi (with Tsushima, Yukio) ★ Representations of finite groups. 90k:20008
 Tsushima, Yukio see Nagao, Hiroshi, 90k:20008

Items with secondary classifications in 20Cxx

- (Berman, S. D.) see Karpilovsky, Gregory, 90g:20002
 Curtis, Charles W. (with Reiner, Irving) ★ Representation theory of finite groups and associative algebras. 90g:16001
 — (with Reiner, Irving) ★ Methods of representation theory. Vol. I. 90k:20001
 Karpilovsky, Gregory Berman's contributions to group representations over fields. 90g:20002
 Reiner, Irving see Curtis, Charles W., 90g:16001 and 90k:20001

20C05 Group rings of finite groups and their modules [see also 16A26]

- Allen, P. J. (with Hobby, C.) Elements of finite order in $V(ZA_4)$. 90d:20012
 Baglinski, C. (with Caranti, A.) The modular group algebras of p -groups of maximal class. 90a:20012
 (Berman, S. D.) see Sandling, Robert, 90k:20013
 Bhandari, Ashwani K. (with Passi, I. B. S.) Residual solvability of the unit groups of group algebras. 90c:20009
 — (with Weiss, Alfred R.) Residual solvability of unit groups of local group rings. 90k:20009
 — (with Luther, I. S.) Corrigendum: "Conjugacy classes of torsion units of the integral group ring of D_8 ." [Comm. Algebra 11 (1983), no. 14, 1607–1627; MR 84j:20011]. 90k:20010
 Caranti, A. see Baglinski, C., 90a:20012
 Drenski, Veselin S. The isomorphism problem for modular group algebras of groups with large centres. 90c:20006
 Everest, G. R. Units in abelian group rings and meromorphic functions. 90k:20011
 Goupil, Alain On products of conjugacy classes of the symmetric group. 90j:20010
 Hales, A. W. (with Passi, I. B. S.) The augmentation quotients of finite abelian p -groups. 90g:20005
 Harris, Morton E. Clifford theory for p -sections of finite groups. 90a:20013
 Hartley, Brian Free groups in normal subgroups of unit groups and arithmetic groups. 90g:20006
 Hiss, Gerhard On the decomposition numbers of $G_2(q)$. 90j:20011
 Hobby, C. see Allen, P. J., 90d:20012
 Karpilovsky, Gregory ★ Unit groups of classical rings. 90c:20007
 — The nilpotency index of the radicals of blocks with abelian defect groups. 90c:20010
 Knörr, Reinhard Virtually irreducible lattices. 90d:20013
 Lichtman, Alexander I. (with Sehgal, Sudarshan K.) The elements of finite order in the group of units of group rings of free products of groups. 90c:20012
 Luther, I. S. (with Passi, I. B. S.) Zassenhaus conjecture for A_5 . 90g:20007
 — see also Bhandari, Ashwani K., 90c:20009
 Neumann, Andreas Completed group algebras without zero divisors. 90a:20014
 Passi, I. B. S. see Bhandari, Ashwani K., 90c:20009; Hales, A. W., 90g:20005 and Luther, I. S., 90g:20007
 Ritter, Jürgen (with Sehgal, Sudarshan K.) Generators of subgroups of $U(ZG)$. 90f:20006
 — (with Sehgal, Sudarshan K.) Construction of units in integral group rings of finite nilpotent groups. 90a:20015
 Robinson, Geoffrey R. On projective summands of induced modules. 90c:20011
 Rosenbaum, Kurt Fortsetzung von Involutionsen in Gruppenalgebren metazyklischer Gruppen. [Extension of involutions in group algebras of metacyclic groups] 90m:20007
 Sandling, Robert Berman's work on units in group rings. 90k:20013
 — The modular group algebra of a central-elementary-by-abelian p -group. 90b:20007
 Schmid, Barbara J. Generating invariants of finite groups. (French summary) 90d:20014
 Sehgal, Sudarshan K. see Ritter, Jürgen, 90a:20015; 90f:20006 and Lichtman, Alexander I., 90k:20012
 Smith, Victor Remarks on group actions and induction theorems. 90h:20009
 Weiss, Alfred R. see Bhandari, Ashwani K., 90c:20009

Items with secondary classifications in 20C05

- Adem, Alejandro Cohomological exponents of ZG -lattices. 90b:20046
 Berman, S. D. (with Grushko, I. I.) Parameters of abelian codes in the group algebra KG of $G = (a) \times (b)$, $a^p = b^p = 1$, p prime, over a finite field K with primitive p th root of unity and related MDS-codes. 90f:94038
 Caenepeel, S. (with Van Oystaeyen, F.) A note on generalized Clifford algebras and representations. 90b:15021
 Charpin, Pascale Définition et caractérisation d'une dimension minimale pour les codes principaux nilpotents d'une algèbre modulaire de p -groupe abélien élémentaire. (English summary) [Definition and characterization of a minimal dimension for the principal nilpotent codes of a modular algebra of an elementary abelian p -group] 90a:94040
 Coelho, Sónia P. (with Polcino Milles, César) Supercenters and FC units in group rings. (see 90h:16001)
 Drenski, Veselin S. (with Lakatos, Piroška) Monomial ideals, group algebras and error correcting codes. 90h:94044
 Endő, A. The relative class number of certain imaginary abelian fields. 90m:11169
 Fan, Yun (with Li, Xiao Pei) On Cartan matrices of Frobenius algebras. (Chinese. English summary) 90j:16029
 Grushko, I. I. see Berman, S. D., 90f:94038
 Hawkes, Trevor The role of representation theory in the study of Fitting classes. 90g:20019
 Hochsman, Klaus Généralisation d'un lemme de Kummer. (English summary) [Generalization of a lemma of Kummer] 90m:11173
 Karpilovsky, Gregory A survey on the Jacobson radical of group algebras. 90h:16020
 Kawata, Shigeto The Green correspondence and Auslander-Reiten sequences. 90e:16047
 — Module correspondence in Auslander-Reiten quivers for finite groups. 90j:16068
 Krieg, Alois Maschke's theorem for Hecke-algebras. 90h:16016
 — Hecke algebras. 90m:16024
 Lafont, Julie On the second Loewy term of projectives of a group algebra. 90k:20021
 Lakatos, Piroška see Drenski, Veselin S., 90h:94044
 Li, Xiao Pei see Fan, Yun, 90j:16029
 Ma, Siu Lun Schur rings and cyclic association schemes of class three. 90k:05045
 Mathur, Samir D. (with Sen, Ashoke) Group theoretic classification of rational conformal field theories with algebraic characters. 90m:81123
 Molloy, Todor Zh. see Nachev, N. A., 90h:16023
 Nachev, N. A. (with Molloy, Todor Zh.) Minimal idempotents of semisimple twisted group algebras of cyclic p -groups of odd order. (Russian) 90h:16023
 Polcino Milles, César see Coelho, Sónia P., (90h:16001)
 Ritter, Jürgen (with Sehgal, Sudarshan K.) Integral group rings with trivial central units. 90d:16009
 Sehgal, Sudarshan K. see Ritter, Jürgen, 90d:16009
 Sen, Ashoke see Mathur, Samir D., 90m:81123

- Shalev, Aner Applications of dimension and Lie dimension subgroups to modular group algebras. 90m:16015
 Steidl, Gabriele (with Tasche, Manfred) Index transforms for multidimensional DFTs and convolutions. 90m:94015
 Tasche, Manfred see Steidl, Gabriele, 90m:94015
 Tu, Bo Xun Positival representations of finite groups. (Chinese. English summary) 90b:20011
 Van Oystaeyen, F. see Caenepeel, S., 90b:15021
 Ward, Harold N. Visible codes. 90m:94042

20C07 Group rings of infinite groups and their modules [see also 16A27]

- Bovdi, A. A. (with Khripta, I. I.) Generalized nilpotence of the multiplicative group of a group ring. 90j:20012
 Brookes, C. J. B. Stabilisers of injective modules over nilpotent groups. 90b:20008
 Brown, K. A. (with Howie, James; Lorenz, Martin) Induced resolutions and Grothendieck groups of polycyclic-by-finite groups. 90d:20015
 Buzási, Károly On the isomorphisms of left ideals in a real crossed group algebra. 90d:20016
 — On the modules over a real crossed group algebra. 90c:20012
 Coelho, Sônia P. (with Polcino Milies, César) Supercenters and FC units in group rings. (see 90b:16001)
 Hartley, Brian Actions on lower central factors of free groups. 90c:20013
 Howie, James see Brown, K. A.; et al., 90d:20015
 Khripta, I. I. see Bovdi, A. A., 90j:20012
 Lorenz, Martin see Brown, K. A.; et al., 90d:20015
 Noskov, G. A. Integrality of the group ring of an almost solvable torsion-free group in $GL_n(Q)$. 90g:20008
 Passi, I. B. S. (with Passman, D. S.) Algebraic elements in group rings. 90g:20009
 Passman, D. S. see Passi, I. B. S., 90g:20009
 Polcino Milies, César see Coelho, Sônia P., (90b:16001)
 Richman, David R. The fundamental theorems of vector invariants. 90d:20017
 Ullery, William Modular group algebras of isotype subgroups of totally projective p -groups. 90m:20008

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- Abd el Moneim, Z. see Buzási, Károly, 90m:16014
 Adjaero, Isabelle (with Spiegel, Eugene) Isomorphic group rings over domains. 90d:16010 (Berman, S. D.) see May, Warren, 90g:01052
 Buzási, Károly (with Abd el Moneim, Z.) Realization of twisted algebras in group algebras over finite fields. (Russian) 90m:16014
 Coelho, Sônia P. (with Polcino Milies, César) A note on central idempotents in group rings. II. 90b:16017
 Farkas, Daniel R. (with Linnell, P. A.) Zero divisors in group rings: something old, something new. 90k:16011
 Kolikov, K. Kh. The fundamental ideal and Jacobson radical of crossed products. (Russian) 90c:16009
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 Damjanović, Milan (with Milošević, Ivanka; Vujičić, Milan) Magnetic line groups. II. Corepresentations of the magnetic line groups isogonal to the point groups C_n , S_{2n} , and C_{nh} . 90a:20096
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 Kovalev, O. V. Methods of irreducible corepresentations and induced representations in crystal physics. 90i:82055
 Li, Xiang Zhu On the symmetry properties of outer product reduction. 90j:20014
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- Smirnov, V. P. *see* Èvarestov, R. A., 90a:82055
- Sudarshan, E. C. G. (with Imbo, Tom D.; Shah Imbo, Chandni) Topological and algebraic aspects of quantization: symmetries and statistics. (French summary) 90g:81093
- Vajčić, Milan *see* Đamjanović, Milan; et al., 90a:20096
- Wu, Jian Shi (with Alhassid, Y.; Gürsey, F.) Group theory approach to scattering. IV. Solvable potentials associated with $SO(2, 2)$. 90m:81140
- Wybourne, B. G. *see* Farmer, R. J.; et al., 90m:81103
- Zhang, Qian Er *see* Li, Xiang Zhu, 90c:81252
- Zheng, Qing Rong *see* Ping, Jia Lun; et al., 90h:20003
- Zhou, Tai Jin A general method for finding the projection operators of point groups using a computer program. (Chinese. English summary) 90a:20004

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- Benyash-Krivets, V. V. The transcendence basis of the field of functions of the variety of characters of a free group. (Russian. English summary) 90j:20026
- Dade, Everett C. Clifford theory and induction from subgroups. 90f:20020
- Gagola, Stephen M., Jr. Lifting properties of some universal orthogonal representations. 90c:20015
- Matveev, A. A. The semigroup of prevarieties of group representations. (Russian) 90c:20016
- Vorsl, Samuel M. On the semigroup of radical classes of group representations. 90i:20017
- Two remarks on homogeneous varieties of group representations. (Russian) 90h:20017
- Yoshida, Tomoyuki On the unit groups of Burnside rings. 90j:20027

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- Bass, Hyman Linearizing flat families of reductive group representations. (see 90j:14003)
- Carlisle, David (with Kuhn, Nicholas J.) Smash products of summands of $B(\mathbb{Z}/p)^n$. 90i:55017
- Cusick, Larry W. Free actions on spaces with nonzero Euler characteristic. 90j:57033
- Diaconis, Persi ★ Group representations in probability and statistics. 90a:60001
- Isaacs, I. M. Dual modules and group actions on extra-special groups. 90f:20051
- Kerzer, E. Sh. On decomposition of a binomial in a skew polynomial ring. 90c:16006
- Krasil'nikov, A. N. (with Shmel'kin, A. L.) On the laws of finite-dimensional representations of solvable Lie algebras and groups. 90c:17020
- Kuhn, Nicholas J. *see* Carlisle, David, 90i:55017
- Shmel'kin, A. L. *see* Krasil'nikov, A. N., 90c:17020
- Thévenaz, Jacques A characterization of cyclic groups. 90h:20030

20Dxx Abstract finite groups

20D05 Classification of simple and nonsolvable groups

- Borovik, A. V. Finite subgroups of simple algebraic groups. (Russian) 90i:20018
- Fomin, A. N. A remark on finite simple nonabelian groups. (Russian) (see 90h:20005)
- Huang, Jian Hua (with Li, Hui Ling) Buildings, amalgams and incidence geometries. I. BN -pairs and amalgams. (Chinese. English summary) 90a:20028
- Kondratiev, Anatolii Semenovich On prime graph components of finite simple groups. (Russian) 90h:20018
- Li, Hui Ling *see* Huang, Jian Hua, 90a:20028
- Li, Shi Rong Finite nonsolvable groups with supersolvable second maximal 3d-subgroups. (Chinese) 90d:20033
- Shi, Wu Jie A new characterization of some simple groups of Lie type. 90c:20022
- Timmesfeld, F. G. Simultaneous pushing up. 90c:20013
- Zhang, Guang Xiang On self-normalizing cyclic subgroups. 90j:20028

Items with secondary classifications in 20D05

- Blok, A. M. (with Lyubich, M. Yu.) Ergodic properties of transformations of an interval. 90g:58063
- Carter, R. W. ★ Simple groups of Lie type. 90g:20001
- Finkelstein, Larry (with Kleitman, Daniel; Leighton, Frank Thomson) Applying the classification theorem for finite simple groups to minimize pin count in uniform permutation architectures (extended abstract). (see 90f:68010)
- Gorenstein, Daniel The classification of the finite simple groups, a personal journey: the early years. 90g:01031
- Kleitman, Daniel *see* Finkelstein, Larry; et al., (90f:68010)
- Leighton, Frank Thomson *see* Finkelstein, Larry; et al., (90f:68010)
- Lyubich, M. Yu. *see* Blok, A. M., 90g:58063
- Mazurov, Viktor Danilovich (with Mazurova, N. P.) A minimal permutation representation of the simple group F_3 . (Russian) 90d:20034
- Mazurova, N. P. *see* Mazurov, Viktor Danilovich, 90d:20034
- Saxl, Jan On a question of W. Jehne concerning covering subgroups of groups and Kronecker classes of fields. 90h:11118
- Tyutyunov, V. N. The product of two finite groups with a maximal nilpotent intersection. 90d:20043

20D06 Simple groups: alternating and classical groups

[see also 20Gxx, 22Exx]

- Brenner, J. L. (with List, R. J.) Applications of partition theory to groups: covering the alternating group by products of conjugacy classes. 90k:20029
- Chak'ryan, Kerope B. (with Petrov, Nikola) Maximal subgroups of ${}^2G_2(q)$. (Russian summary) 90k:20030
- Dalla Volta, F. (with Tamburini Bellani, Maria Chiara) Generation of $\text{Psp}(4, q)$ by three involutions. (Italian. English summary) 90j:20029
- List, R. J. *see* Brenner, J. L., 90k:20029

- Nozawa, Sōhei A characterization of the simple groups $U_4(3)$ and $L_4(3)$. 90g:20015
- Petrov, Nikola *see* Chak'ryan, Kerope B., 90k:20030
- Tamburini Bellani, Maria Chiara Generation of certain simple groups by elements of small order. (Italian summary) 90a:20028
- *see also* Dalla Volta, F., 90j:20029

Items with secondary classifications in 20D06

- Arad, Zvi (with Lipman-Gutweter, Hinnit) On products of characters in finite groups. 90k:20014
- Campbell, C. M. (with Robertson, E. F.; Williams, P. D.) On presentations of $\text{PSL}(2, p^n)$. 90j:20066
- Cohen, Arjeh M. (with Griess, Robert L., Jr.) On finite simple subgroups of the complex Lie group of type E_6 . 90a:20089
- Felt, Walter Some finite groups with nontrivial centers which are Galois groups. 90d:12004
- Fleischmann, Peter The complexities and rank varieties of the simple modules of $({}^1A_2)/(q^2)$ in the natural characteristic. 90d:20023
- Griess, Robert L., Jr. *see* Cohen, Arjeh M., 90a:20089
- Kleidman, Peter B. (with Wilson, Robert A.) The maximal subgroups of $E_6(2)$ and $\text{Aut}(E_6(2))$. 90m:20034
- Liebeck, Martin W. (with Praeger, Cheryl E.; Saxl, Jan) The maximal factorizations of the finite simple groups and their automorphism groups. 90k:20048
- Lipman-Gutweter, Hinnit *see* Arad, Zvi, 90k:20014
- Praeger, Cheryl E. *see* Liebeck, Martin W.; et al., 90k:20048
- Robertson, E. F. *see* Campbell, C. M.; et al., 90j:20066
- Saxl, Jan *see* Liebeck, Martin W.; et al., 90k:20048
- Seitz, Gary M. Maximal subgroups of exceptional groups. 90c:20054
- Walis, Gary L. Nonsimple groups which are the product of simple groups. 90k:20049
- Williams, P. D. *see* Campbell, C. M.; et al., 90j:20066
- Wilson, Robert A. *see* Kleidman, Peter B., 90m:20034

20D08 Simple groups: sporadic groups

- von Bon, John (with Cohen, Arjeh M.; Cuypers, Hans) Graphs related to Held's simple group. 90k:20019
- Cohen, Arjeh M. *see* von Bon, John; et al., 90k:20019
- Curtis, R. T. Natural constructions of the Mathieu groups. 90h:20020
- Further elementary techniques using the miracle octad generator. 90k:20031
- Cuypers, Hans *see* von Bon, John; et al., 90k:20019
- Diawara, Ousmane The primitive permutation characters of the Held sporadic simple group. 90k:20032
- Griess, Robert L., Jr. (with Meierfrankenfeld, Ulrich; Segev, Yoav) A uniqueness proof for the Monster. 90j:20030
- Held, Dieter The situation of $\text{Sp}_4(4) \cdot 2$ in the sporadic simple group He. 90f:20021
- Ivanov, Aleksandr Anatolevich (with Shpetktorov, S. V.) Geometries for sporadic groups related to the Petersen graph. II. 90h:20021
- Kleidman, Peter B. (with Parker, Richard A.; Wilson, Robert A.) The maximal subgroups of the Fischer group Fi_{23} . 90c:20014
- Koike, Masao Moonshine. Simple groups and unusual relations to automorphic functions. (Japanese) 90c:20023
- Linton, Stephen A. The maximal subgroups of the Thompson group. 90c:20024
- Mazurov, Viktor Danilovich (with Mazurova, N. P.) A minimal permutation representation of the simple group F_3 . (Russian) 90d:20034
- (with Mazurova, N. P.) The minimal permutation representation of the Thompson group. (Russian) 90i:20019
- Mazurova, N. P. *see* Mazurov, Viktor Danilovich, 90d:20034 and 90i:20019
- Meierfrankenfeld, Ulrich *see* Griess, Robert L., Jr.; et al., 90j:20030
- Meyer, Werner *see* Neutsch, Wolfram, 90a:20029
- Neutsch, Wolfram (with Meyer, Werner) A root system for the Lyons group. 90a:20029
- Parker, Richard A. *see* Kleidman, Peter B.; et al., 90c:20014
- Rowley, Peter On the minimal parabolic system related to M_{24} . 90k:20033
- Segev, Yoav *see* Griess, Robert L., Jr.; et al., 90j:20030
- Shi, Wu Jie A characteristic property of the Mathieu groups. (Chinese) 90d:20035
- A characterization of the Conway simple group Co_2 . (Chinese) 90g:20016
- Shpetktorov, S. V. *see* Ivanov, Aleksandr Anatolevich, 90h:20021
- Toptsis, Anastas A. New two-element generating sets for M_{22} , M_{23} , M_{24} . (see 90m:00036)
- Wang, E Fang Equicentralizer subgroups of sporadic simple groups. 90a:20030
- Wang, Jie² Computing covering numbers of sporadic simple groups. (Chinese. English summary) 90d:20036
- Wilson, Robert A. *see* Kleidman, Peter B.; et al., 90c:20014
- Woldar, Andrew J. On Hurwitz generation and genus actions of sporadic groups. 90i:20020
- Yoshiara, Satoshi Some geometries for J_3 and $O'N$. 90j:20031
- On the geometry of the Hall-Janko group on 315 points. 90m:20020
- Zisser, Ilan The covering numbers of the sporadic simple groups. 90k:20034

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- Arad, Zvi (with Lipman-Gutweter, Hinnit) On products of characters in finite groups. 90k:20014
- Curtis, R. T. Geometric interpretations of the "natural" generators of the Mathieu groups. 90j:20008
- Dixon, Lance J. (with Ginsparg, P.; Harvey, Jeffrey A.) Beauty and the beast: superconformal symmetry in a Monster module. 90k:81119
- Felt, Walter Some finite groups with nontrivial centers which are Galois groups. 90d:12004
- Ford, David J. (with McKay, John) Ramifications of Ramanujan's work on η -products. 90k:11051
- Frenkel, Igor B. (with Lepowsky, James; Meurman, Arne) ★ Vertex operator algebras and the Monster. 90h:17026
- Ginsparg, P. *see* Dixon, Lance J.; et al., 90k:81119
- Harvey, Jeffrey A. *see* Dixon, Lance J.; et al., 90k:81119
- Huang, Jian Hua (with Ma, Ji Xin; Stellmacher, Bernd) Amalgams of rank 2 in characteristic 3 involving $L_2(5)$. 90j:20056

- Koike, Masao Modular forms and the automorphism group of Leech lattice. 90h:11038
- Lang, Mong-Lung On a question raised by Conway-Norton. 90h:11039
- Lenz, Hanfried Variations on the projective plane of order four. 90i:51006
- Lepowsky, James Perspectives on vertex operators and the Monster. 90f:17031
— see also Frenkel, Igor B.; et al., 90h:17026
- Liebeck, Martin W. (with Praeger, Cheryl E.; Saxl, Jan) The maximal factorizations of the finite simple groups and their automorphism groups. 90k:20048
- Lipman-Gutwiler, Hinnit see Arad, Zvi, 90k:20014
- Lord, Eric A. Geometry of the Mathieu groups and Golay codes. 90g:11168
- Ma, Ji Xin see Huang, Jian Hua; et al., 90j:20056
- Mason, Geoffrey Finite groups and Hecke operators. 90k:11052
- McKay, John (with Strauss, Hubertus) The q -series of monstrous moonshine and the decomposition of the head characters. 90m:11065
— see also Ford, David J., 90k:11051
- Meurman, Arne see Frenkel, Igor B.; et al., 90h:17026
- Mukai, Shigeru Finite groups of automorphisms of $K3$ surfaces and the Mathieu group. 90k:32053
- Praeger, Cheryl E. see Liebeck, Martin W.; et al., 90k:20048
- Prince, Alan R. The Hall-Janko group as a collineation group of an infinite projective plane. 90c:51004
- Ronan, M. A. (with Smith, Stephen D.) Computation of 2-modular sheaves and representations for $L_4(2)$, A_7 , $3S_6$, and M_{24} . 90c:20020
- Saxl, Jan see Liebeck, Martin W.; et al., 90k:20048
- Smith, Stephen D. see Ronan, M. A., 90c:20020
- Solicher, Leonard H. Presentations for some groups related to Co_1 . (see 90m:00036)
- From the Monster to the Bimonster. 90j:20071
- Stellmacher, Bernd see Huang, Jian Hua; et al., 90j:20056
- Strauss, Hubertus see McKay, John, 90m:11065
- Walls, Gary L. Nonsimple groups which are the product of simple groups. 90k:20049
- Woldar, Andrew J. Genus actions of finite simple groups. 90h:20038

20D10 Solvable groups, theory of formations, π -length, ranks, factorable groups, p -groups [see also 20F17]

- Atamas', V. V. Finite solvable groups all of whose subgroups of non-prime-power index are completely factorizable. (Russian) 90g:20017
- Ballester-Bolinches, A. b -normalizers and local definitions of saturated formations of finite groups. 90j:20032
— Maximal subgroups and formations. 90k:20035
- Bannascher, Wolfgang Über k - Φ -reguläre p -Gruppen. [On k - Φ -regular p -groups] 90a:20031
- Barlotti, Marco On a definition for formations. (Italian summary) 90h:20022
- Beidleman, James C. (with Gállego, M. Pilar) Conjugate π -normally embedded Fitting functors. 90c:20025
— (with Hauck, Peter) Closure properties for Fitting functors. 90m:20021
- Bhattacharya, Prabir see Mukherjee, N. P., 90j:20036 and 90k:20040
- Brisson, Owen J. An example in the theory of Fitting classes. 90k:20036
- Chubarov, I. A. Representations of some finite solvable groups. (Russian) 90d:20037
- Covaci, Rodica On π -Schunck classes with the P -property. 90k:20037
- Doerk, K. (with Pérez-Ramos, M. D.) A criterion for \mathcal{F} -subnormality. 90d:20038
- Espuelas, Alberto On the Fitting length conjecture. 90k:20021
- Förster, Peter An elementary proof of Lubeseder's theorem. 90f:20022
- Gállego, M. Pilar see Beidleman, James C., 90c:20025
- Golikova, E. A. Finite nonprimary groups with uniquely generated normal subgroups. (Russian) 90c:20026
- Gao, Xiu Yun Necessary and sufficient conditions for a finite group to be supersolvable. (Chinese. English summary) 90h:20023
- Guz, S. N. (with Shmigirev, É. F.) Conjugacy of β -abnormal subgroups in a finite group. (Russian. English summary) 90j:20033
- Harinath, K. S. A note on the number of conjugacy classes. 90g:20018
- Hauck, Peter see Beidleman, James C., 90m:20021
- Hawidi, H. M. (with Sergeichuk, V. V.) Two semiclassifying theorems for metabelian groups. (Arabic summary) 90k:20038
- Hawkes, Trevor The role of representation theory in the study of Fitting classes. 90g:20019
- Héthelyi, L. On linear p -groups of degree p . 90a:20032
- Hofmann, Mark C. Locally constructed formations. 90m:20022
- Huppert, Bertram (with Manz, O.) Orbit sizes of p -groups. 90j:20034
- Iranzo, M. J. (with Pérez Monasor, F.) A note on quotient groups of N -constrained groups. 90a:20033
- Kamornikov, S. F. A method for constructing β -projectors in finite groups. (Russian) 90c:20015
— Permutation subnormal subgroups of finite groups. (Russian. English summary) 90k:20039
- Khazal, Reyadh R. A note on minimal and maximal subgroups in a finite group. (Arabic summary) 90j:20035
— see also Mukherjee, N. P., 90h:20025
- Kurzweil, Hans Die Praefrattinigruppe im Intervall eines Untergruppenverbandes. [The pre-Frattini group in the interval subgroup lattice] 90i:20022
- Kuzennyi, N. F. see Levishchenko, S. S., 90a:20034
- Levishchenko, S. S. (with Kuzennyi, N. F.) Constructive description of finite minimal nonsupersolvable groups. (Russian) 90a:20034
- Manz, O. see Huppert, Bertram, 90j:20034
- McCann, Brendan Minimal Fitting classes. 90a:20035
- Meĭnikov, Yu. B. The structure of supercopiable p -groups. 90h:20024
- Mukherjee, N. P. (with Khazal, Reyadh R.) On the normal index of maximal subgroups of a finite group. 90h:20025
— (with Bhattacharya, Prabir) Some analogs of the Frattini subgroup of a finite group. 90j:20036
— (with Bhattacharya, Prabir) On theta pairs for a maximal subgroup. 90k:20040

- Navarro, Gabriel Characters and the generalized Fitting subgroup. 90c:20027
- Ninomiya, Yasushi (with Wada, Tomoyuki) Blocks of p -solvable groups with two or three simple modules. (see 90k:16001)
- Olazábal, J. M. On f -centrality of finite groups. (Italian summary) 90f:20023
- Pense, Joachim Outer Fitting pairs. 90a:20036
- Pérez Monasor, F. see Iranzo, M. J., 90a:20033
- Pérez-Ramos, M. D. Stability with respect to a Fitting class. 90m:20023
— see also Doerk, K., 90d:20038
- Sergeichuk, V. V. see Hawidi, H. M., 90k:20038
- Shemetkov, L. A. New ideas and results in the theory of formations. (Russian) 90i:20023
- Shmigirev, É. F. see Guz, S. N., 90j:20033
- Sidorov, Aleksandr Vladimirovich Finite groups with formational subgroups of nonprimary index. (Russian) 90b:20014
- Skiba, A. N. Characterization of finite solvable groups of given nilpotent length. (Russian) 90f:20024
- Soules, Panagiotis Remarks on the Fitting class generated by S_3 . (Italian summary) 90j:20037
- Targonskii, E. A. Nonsolvable local formations with a system of nilpotent subformations. (Russian) 90b:20015
- Turull, Alexandre Groups of automorphisms and centralizers. 90k:20041
- Udipkar, S. G. Torsion groups generated by two elements. 90h:20026
- Wada, Tomoyuki see Ninomiya, Yasushi, (90k:16001)
- Ward, Michael B. Finite groups in which no two distinct conjugacy classes have the same order. 90k:20042
- Zhang, Ji Ping Another characterization of minimal nilpotent groups. (Chinese) 90g:20020
- Zhu, De Gao Constructing groups of order 2^3p for odd primes $p \neq 3, 7$. (Chinese) 90c:20016
- Zimmermann, Irene On a theorem of Deskins. 90c:20028

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- Asad, M. Finite groups some of whose n -maximal subgroups are normal. 90g:20029
— (with Shaalan, A.) On the supersolvability of finite groups. 90h:20047
- Beidleman, James C. (with Karbe, M. J.; Tomkinson, M. J.) Fitting classes of \mathcal{F} -groups. I. 90d:20063
- Bhattacharya, Prabir (with Mukherjee, N. P.) A generalized Frattini subgroup of a finite group. 90c:20020
- Bryce, R. A. A note on subnormal defect in finite soluble groups. 90d:20042
- Covaci, Rodica f -subgroups in finite π -solvable groups. 90a:20037
- Doyle, John Solubility of finite groups admitting a certain fixed-point-free group of automorphisms. 90j:20047
- Feyzioglu, Ahmet K. Charaktergrade und die Kommutatorlänge in auflösbaren Gruppen. [Character degrees and commutator length in solvable groups] 90j:20015
- Glasby, S. P. Constructing normalisers in finite soluble groups. 90f:68092
— Intersecting subgroups of finite soluble groups. 90f:68093
— The composition and derived lengths of a soluble group. 90j:20075
- Heineken, Hermann Hypernormalizing groups. 90j:20046
— (with Lennox, John C.; Stewart, A. G. R.; Wiegold, James) Groups with cyclic derived factor-group. 90h:20042
- Isaacs, I. M. Hall subgroup normalizers and character correspondences in M -groups. 90k:20015
- Karbe, M. J. see Beidleman, James C.; et al., 90d:20063
- Kokhan, N. G. see Zhuk, A. N., 90f:20035
- Lennox, John C. see Heineken, Hermann; et al., 90h:20042
- Mukherjee, N. P. see Bhattacharya, Prabir, 90c:20020
- Polyakov, L. Ya. Finite groups with a given group of operators. (Russian) 90a:20038
- Shaalan, A. see Asad, M., 90h:20047
- Stewart, A. G. R. see Heineken, Hermann; et al., 90h:20042
- Tanaka, Masaki On character correspondences in π -separable groups. 90j:20018
- Tomkinson, M. J. see Beidleman, James C.; et al., 90d:20063
- Wiegold, James see Heineken, Hermann; et al., 90h:20042
- Zhuk, A. N. (with Kokhan, N. G.) Normal complements to subgroups in finite groups. (Russian. English summary) 90f:20035

20D15 Nilpotent groups, p -groups

- Berkovich, Ya. G. Finite metacyclic groups and groups that are close to them. (Russian) (see 90h:20005)
- On the number of subgroups of given order in a finite p -group of exponent p . 90k:20043
- Bhattacharya, Prabir (with Mukherjee, N. P.) Correction to: "A family of maximal subgroups containing the Sylow subgroups and some solvability conditions" [Arch. Math. (Basel) 45 (1985), no. 5, 390–397; MR 87b:20028]. 90g:20021a
— see also Zhang, Bao Lin², 90g:20021b
- Curran, M. J. Automorphisms of certain p -groups (p odd). 90c:20029
- Exarchakos, Theodoros On p -groups of small order. 90i:20024
- Guo, Xiu Yun see Zhang, Bao Lin², 90g:20021b
- Huynh Mui (with Pham Thoai) p -groups G with $G/Z(G) \cong \mathbb{Z}/p^n \times \mathbb{Z}/p^n$. (Vietnamese. English summary) 90h:20016
- Isaacs, I. M. Coprime group actions fixing all nonlinear irreducible characters. 90j:20038
- Khukhro, E. I. On Hughes' problem for finite p -groups. (Russian) 90f:20025
— Nilpotent p -groups and their automorphisms. (Russian) 90m:20024
- Larrea, Ma. Concepción see Vera López, Antonio, 90g:20023
- Makhnif, A. A. Finite groups of 2-local 3-rank 1. 90f:20026
- Mukherjee, N. P. see Bhattacharya, Prabir, 90g:20021a and Zhang, Bao Lin², 90g:20021b
- Nguyễn Ngọc Châu On the isoclinic classes of the groups G with $G/Z(G) \cong \mathbb{Z}_p^2$. (Vietnamese. English summary) 90d:20039
- Pannone, Virgilio On the partitions of finite p -groups. (Italian. English summary) 90c:20017
- Pham Thoai see Huynh Mui, 90h:20016
- Qin, Zhong Ping The structure of groups defined by relations containing a parameter. (Chinese. English summary) 90g:20022

- Quintana, Ricardo, Jr. A bound on the order of finitely generated nilpotent groups with an exponent. 90k:20044
- Ren, Yong Cai Some remarks on p -nilpotent groups. (Chinese. English summary) 90f:20027
- Thomas, Richard M. On 2-groups of small rank admitting an automorphism of prime order $p > 3$. 90j:20039
- On 2-groups of small rank admitting an automorphism of order 3. 90j:20040
- Vera López, Antonio (with Larrea, Ma. Concepción) On the number of conjugacy classes in a finite p -group. 90g:20023
- On the number of conjugacy classes in a finite p -group. 90j:20041
- Xiao, Wen Jun On a conjecture of Zassenhaus. (Chinese) (Not in MR)
- Zhang, Bao Lin² (with Guo, Xiu Yun) Comment: "A family of maximal subgroups containing the Sylow subgroups and some solvability conditions" [Arch. Math. (Basel) 45 (1985), no. 5, 390–397; MR 87b:20028] by P. Bhattacharya and N. P. Mukherjee. (Chinese) 90g:20011b

Items with secondary classifications in 20D15

- Berkovich, Ya. G. Characters and normal subgroups of finite groups. (Russian. English and Georgian summaries) 90f:20007
- On p -subgroups of finite symmetric and alternating groups. 90d:20009
- Drenski, Veselin S. The isomorphism problem for modular group algebras of groups with large centers. 90c:20006
- Huppert, Bertram (with Manz, O.) Orbit sizes of p -groups. 90j:20034
- Khazal, Reyadh R. A note on minimal and maximal subgroups in a finite group. (Arabic summary) 90j:20035
- Mallin, D. A. Integral representations of p -groups over local fields. (Russian) 90m:20009
- Manz, O. see Huppert, Bertram, 90j:20034
- Miyake, Katsuya Algebraic investigations of Hilbert's Theorem 94, the principal ideal theorem and the capitulation problem. 90k:11144
- Newman, M. F. (with O'Brien, E. A.) A CAYLEY library for the groups of order dividing 128. 90b:20002
- O'Brien, E. A. see Newman, M. F., 90b:20002
- Rédei, László ★ Endliche p -Gruppen. (German) [Finite p -groups] 90i:20001
- Sandling, Robert The modular group algebra of a central-elementary-by-abelian p -group. 90c:20007
- Zhang, Ji Ping Another characterization of minimal nilpotent groups. (Chinese) 90g:20020

20D20 Sylow subgroups, Sylow properties, π -groups, π -structure

- Artemovich, O. D. Isolated elements of prime order in finite groups. 90e:20018
- Brandl, Rolf Commutators and Π -subgroups. 90i:20025
- Cobb, Philip Existence of Hall subgroups and embedding of π -subgroups into Hall subgroups. 90j:20042
- Covaci, Rodica f -subgroups in finite π -solvable groups. 90a:20037
- Coltrg, Piroka On (π, k, t) groups. (see 90k:20002)
- Du, Zhao Wei π' -closure and π -homogeneity of finite groups. (Chinese. English summary) 90j:20043
- On π -homogeneity and π' -closure of finite groups. (Chinese) 90d:20040
- Ercan, Gölün (with Gölün, İsmail Ş.) On a generalization of Hughes problem. (Turkish summary) 90m:20025
- Gölün, İsmail Ş. see Ercan, Gölün, 90m:20025
- Guo, Xiu Yun A note on normal π -complements. (Chinese. English summary) 90e:20019
- Normal complementary subgroups in finite groups. (Chinese) 90j:20044
- (with Zhang, Bao Lin²) Normal π -complements in finite groups. 90f:20028
- On the intersection of a class of maximal subgroups of a finite group. 90k:20029
- Guralnick, R. On the number of generators of a finite group. 90m:20027
- Jing, Nai Huan see Liu, Li, 90g:20024
- Liu, Li (with Jing, Nai Huan) The structure of groups of order $2^2 p^3$. (Chinese. English summary) 90g:20024
- Lucchini, Andrea A bound on the number of generators of a finite group. 90m:20026
- Romanovskii, A. V. (with Yachchenko, A. A.) Sylow subgroups of linear groups. 90f:20030
- Stellmacher, Bernd An analogue to Glauberman's ZJ -theorem. 90k:20045
- Virág, Imre On finite π -splitting groups over a subgroup. 90j:20017
- On nilpotent quotient groups of finite groups. 90g:20025
- Wang, Xiao Feng On inner π' -closed groups and normal π -complements. 90m:20028
- Yachchenko, A. A. see Romanovskii, A. V., 90f:20030
- Zhang, Bao Lin² see Guo, Xiu Yun, 90f:20028
- Zhang, Ji Ping The minimal degree faithful representations of a class of finite groups. (Chinese) 90i:20027
- On the p -solubility of the finite groups with a T.I. Sylow p -subgroup. 90g:20026
- Zheng, Yan Li Sylow-like theorems. (Chinese. English summary) 90f:20031

Items with secondary classifications in 20D20

- Arad, Zvi Determination of a finite group by certain subgroups and a solution to Szép's conjecture. 90f:20033
- Arregi, Jesús María see Vera López, Antonio, 90k:20078
- Butler, Gregory (with Cannon, John J.) Computing in permutation and matrix groups. III. Sylow subgroups. 90i:20003
- Cannon, John J. see Butler, Gregory, 90i:20003
- Gillet, Anna Luisa Finite groups with an automorphism of prime order fixing the Frattini subgroup of a Sylow p -subgroup. (Italian summary) 90g:20030
- Hermann, Peter Z. On π -quasinormal subgroups in finite groups. 90f:20028
- Pálfi, P. P. (with Szalay, M.) Further probabilistic results on the symmetric p -groups. 90g:11109
- Ren, Yong Cai Some remarks on p -nilpotent groups. (Chinese. English summary) 90f:20027
- Szalay, M. see Pálfi, P. P., 90g:11109
- Vera López, Antonio (with Arregi, Jesús María) Classes de conjugaison dans les p -sous-groupes de Sylow de $GL(n, q)$. (English summary) [Conjugacy classes in Sylow p -subgroups of $GL(n, q)$] 90k:20078

20D25 Special subgroups (Frattini, Fitting, etc.)

- Bhattacharya, Prabir (with Mukherjee, N. P.) A generalized Frattini subgroup of a finite group. 90c:20020
- Cody, William F. Classification of 2-generator finite metabelian p -groups having a proper H_2 -subgroup. 90b:20018
- Deaconescu, Marian Some remarks on IM-groups. 90f:20032
- Khazal, Reyadh R. A note on maximal subgroups in finite groups. 90j:20045
- Makhnev, A. A. Abelian TI-subgroups of finite groups. (Russian) 90b:20019
- Mukherjee, N. P. see Bhattacharya, Prabir, 90c:20020
- Polyakov, L. Ya. Finite groups with a given group of operators. (Russian) 90a:20038
- Qiu, Wei Sheng A method for determining all equicentralizer subgroups of a finite group. (Chinese. English summary) 90i:20026
- Selgal, Surinder K. On the normalizer of a group in the Cayley representation. 90g:20027
- Struth, G. The nonexistence of certain Tits geometries with affine diagram. 90g:20028
- Wang, Jing² A special class of normal subgroups. (Chinese. English summary) 90i:20027
- Items with secondary classifications in 20D25
- Bhattacharya, Prabir see Mukherjee, N. P., 90j:20036 and 90k:20040
- Deaconescu, Marian Zeros of characters and the Frattini subgroup. 90m:20011
- Jing, Nai Huan see Liu, Li, 90g:20024
- Kurzweil, Hans Die Praefrattinigruppe im Intervall eines Untergruppenverbandes. [The pre-Frattini group in the interval subgroup lattice] 90i:20022
- Liu, Li (with Jing, Nai Huan) The structure of groups of order $2^2 p^3$. (Chinese. English summary) 90g:20024
- Mukherjee, N. P. (with Bhattacharya, Prabir) Some analogs of the Frattini subgroup of a finite group. 90j:20036
- (with Bhattacharya, Prabir) On theta pairs for a maximal subgroup. 90k:20040
- Pérez-Ramos, M. D. Stability with respect to a Fitting class. 90m:20023
- Stellmacher, Bernd An analogue to Glauberman's ZJ -theorem. 90k:20045
- Turull, Alexandre Groups of automorphisms and centralizers. 90k:20041
- Wang, E. Fang Equicentralizer subgroups of sporadic simple groups. 90a:20030

20D30 Series and lattices of subgroups

- Antonov, Vladimir Alekseevich Finite groups with a modular lattice of centralizers. (Russian) 90c:20030
- Asaad, M. Finite groups some of whose n -maximal subgroups are normal. 90g:20029
- Ballester-Bolínches, A. (with Ezquerro Marín, Luis Miguel) A note on the Jordan-Hölder theorem. 90e:20021
- Brandl, Rolf Groups whose lattices of normal subgroups are distributive. 90d:20041
- Ezquerro Marín, Luis Miguel see Ballester-Bolínches, A., 90e:20021
- Hawkes, Trevor (with Isaacs, I. M.; Özyadın, M.) On the Möbius function of a finite group. 90k:20046
- Holmes, Charles S. Automorphisms of the lattice of subgroups of $Z_p^n \times Z_{p^n}$. 90a:20039
- Isaacs, I. M. see Hawkes, Trevor, et al., 90k:20046
- Lafont, Julie Maximal subgroups and the Jordan-Hölder theorem. 90a:20040
- Lucchini, Andrea On p -groups whose L -automorphism group is transitive on the atoms. 90e:20020
- Özyadın, M. see Hawkes, Trevor, et al., 90k:20046
- Zimmermann, Irene Submodular subgroups in finite groups. 90b:20028
- Items with secondary classifications in 20D30
- Khazal, Reyadh R. A note on maximal subgroups in finite groups. 90j:20045
- Kurzweil, Hans Die Praefrattinigruppe im Intervall eines Untergruppenverbandes. [The pre-Frattini group in the interval subgroup lattice] 90i:20022
- Zacher, Giovanni Current knowledge about certain aspects of the lattice of subgroups of a group. (Italian) 90g:20036
- Zimmermann, Irene On a theorem of Deskins. 90c:20028

20D35 Subnormal subgroups

- Bryce, R. A. A note on subnormal defect in finite soluble groups. 90d:20042
- Coltrg, Piroka On π - t groups. 90e:20022
- Heineken, Hermann Hypernormalizing groups. 90j:20046
- Maier, Rudolf Zur Vertauschbarkeit und Subnormalität von Untergruppen. [On the permutability and subnormality of subgroups] 90k:20047
- Items with secondary classifications in 20D35
- Kamornikov, S. F. Permutation subnormal subgroups of finite groups. (Russian. English summary) 90k:20039
- Wang, Jing² A special class of normal subgroups. (Chinese. English summary) 90i:20027

20D40 Products of subgroups

- Arad, Zvi Determination of a finite group by certain subgroups and a solution to Szép's conjecture. 90f:20033
- Chertok, V. D. On the product of two p -decomposable groups. (Russian) 90f:20034
- Hering, Christoph On Szép's conjecture concerning factorizations of finite groups. 90c:20031
- Hermann, Peter Z. On π -quasinormal subgroups in finite groups. 90i:20028
- Jiménez, Daniel Classification of the self-normalizing subgroups of the one-dimensional finite affine group $P(K)$. (Spanish) 90k:20029
- Kokhan, N. G. see Zhuk, A. N., 90f:20035
- Liebeck, Martin W. (with Praeger, Cheryl E.; Saxl, Jan) The maximal factorizations of the finite simple groups and their automorphism groups. 90k:20048
- Mazharovskaya, L. S. On the structure of finite c -factorizable groups. (Russian) 90b:20021
- Praeger, Cheryl E. see Liebeck, Martin W.; et al., 90k:20048
- Rosenbaum, Kurt Die Untergruppen von halbdirekten Produkten. [The subgroups of semidirect products] 90c:20032
- Saxl, Jan see Liebeck, Martin W.; et al., 90k:20048

Tyutyanov, V. N. The product of two finite groups with a maximal nilpotent intersection. 90d:20043

Walls, Gary L. Nonsimple groups which are the product of simple groups. 90k:20049

Zhu, A. N. (with Kokhan, N. G.) Normal complements to subgroups in finite groups. (Russian. English summary) 90f:20035

Items with secondary classifications in 20D40

Guo, Xiu Yun Normal complementary subgroups in finite groups. (Chinese) 90j:20044

Tsuev, A. V. A class of periodic groups with a complemented locally nilpotent coradical. (Russian) 90k:20061

20D45 Automorphisms

Abassi, G. Q. Central products of some metabelian p -groups of maximal class. 90b:20022

Deaconescu, Marian (with MacHale, Desmond) Odd order groups with an automorphism cubing many elements. 90a:20041

Doyle, John Solubility of finite groups admitting a certain fixed-point-free group of automorphisms. 90j:20047

Gilotti, Anna Luisa Finite groups with an automorphism of prime order fixing the Frattini subgroup of a Sylow p -subgroup. (Italian summary) 90g:20030

MacHale, Desmond see Deaconescu, Marian, 90a:20041

Pérez-Ramos, M. D. A p -stable action of the automorphism group of a group. 90b:20023

Pettet, Martin R. On inner automorphisms of finite groups. 90a:20042

Zimmerman, Jay Groups with automorphisms squaring most elements. 90k:20050

Items with secondary classifications in 20D45

Curran, M. J. Automorphisms of certain p -groups (p odd). 90c:20029

Exarchakos, Theodoros On p -groups of small order. 90i:20024

Holmes, Charles S. Automorphisms of the lattice of subgroups of $Z_{p^n} \times Z_{p^n}$. 90a:20039

Lacchini, Andrea On p -groups whose L -automorphism group is transitive on the atoms. 90c:20020

Pettet, Martin R. Central automorphisms of periodic groups. 90a:20057

20D50 Covering of subgroups

Items with secondary classifications in 20D50

Berger, Marc A. (with Felzenbaum, Alexander; Fraenkel, A. S.) Mycielski-Sierpiński conjecture and Korec-Znám result. 90d:20044

Felzenbaum, Alexander see Berger, Marc A.; et al., 90d:20044

Fraenkel, A. S. see Berger, Marc A.; et al., 90d:20044

Pannone, Virgilio On the partitions of finite p -groups. (Italian. English summary) 90c:20017

20D60 Arithmetic and combinatorial problems

Anderson, B. A. S_3 , A_3 and all nonabelian groups of order 32 are sequenceable. 90a:20043

— (with Leonard, P. A.) Symmetric sequencings of finite Hamiltonian groups with a unique element of order 2. 90a:20045

— Sequencings of dicyclic groups. II. 90a:20044

Bannai, Eiichi (with Deza, M.; Frankl, Peter; Kim, A. C.; Kiyota, M.) On the number of elements which are not n th powers in finite groups. 90j:20048

Berger, Marc A. (with Felzenbaum, Alexander; Fraenkel, A. S.) Mycielski-Sierpiński conjecture and Korec-Znám result. 90d:20044

Dénes, J. (with Keedwell, A. D.) A new conjecture concerning admissibility of groups. 90c:20033

Deza, M. see Bannai, Eiichi; et al., 90j:20048

Evans, Anthony B. Orthomorphisms of groups. 90j:20049

Felzenbaum, Alexander see Berger, Marc A.; et al., 90d:20044

Fraenkel, A. S. see Berger, Marc A.; et al., 90d:20044

Frankl, Peter see Bannai, Eiichi; et al., 90j:20048

Hamidoune, Y. O. Factorisations courtes dans un groupe fini. (English summary) [Short factorizations in a finite group] 90g:20031

Holt, Derek F. Enumerating perfect groups. 90d:20045

Keedwell, A. D. see Dénes, J., 90c:20033

Kim, A. C. see Bannai, Eiichi; et al., 90j:20048

Kiyota, M. see Bannai, Eiichi; et al., 90j:20048

Larrea, Ma. Concepción see Vera López, Antonio, 90a:20046

Leonard, P. A. see Anderson, B. A., 90a:20043

Neumann, Peter M. Two combinatorial problems in group theory. 90f:20036

Scapellato, Raffaele Finite groups with the same number of elements of each order. (Italian summary) 90g:20032

Thévenaz, Jacques A characterization of cyclic groups. 90h:20030

Vera López, Antonio (with Larrea, Ma. Concepción) On the number of conjugacy classes in a finite group. II. 90a:20046

Items with secondary classifications in 20D60

Arasu, K. T. (with Jungnickel, Dieter) Affine difference sets of even order. 90k:05035

Bergmann, Horst Eine Bemerkung zu den zyklischen Gruppen. [A remark on cyclic groups] 90j:20002

Evans, Anthony B. Orthomorphisms of $GF(q)^+$. 90c:05039

Gluck, David Hadamard difference sets in groups of order 64. 90c:05020

Harinath, K. S. A note on the number of conjugacy classes. 90g:20018

Imrich, W. (with Seifter, Norbert) A note on the growth of transitive graphs. 90a:05095

Jungnickel, Dieter (with Pott, Alexander) Computational nonexistence results for abelian affine difference sets. 90g:05045

— A new family of relative difference sets. 90k:05037

— see also Arasu, K. T., 90k:05035

Koplovich, L. E. Difference sets in noncyclic abelian groups. 90g:05047

de Launey, Warwick Square GBRDs over nonabelian groups. 90h:05033

Massias, Jean-Pierre (with Nicolas, Jean-Louis; Robin, Guy) Effective bounds for the maximal order of an element in the symmetric group. 90c:11139

Nicolas, Jean-Louis see Massias, Jean-Pierre; et al., 90c:11139

Pott, Alexander see Jungnickel, Dieter, 90g:05045

Robin, Guy see Massias, Jean-Pierre; et al., 90c:11139

Robison, Arch D. An improved rewriting-number algorithm. 90m:68099

Schmutz, Eric Proof of a conjecture of Erdős and Turán. 90d:11111

Seifter, Norbert see Imrich, W., 90a:05095

White, Arthur T. Ringing the cosets. 90a:20010

— Ringing the cosets. II. 90a:20011

20D99 None of the above, but in this section

James, Rodney (with Newman, M. F.; O'Brien, E. A.) The groups of order 128. 90j:20050

Khazal, Reyadh R. (with Mukherjee, N. P.) A note on influence of subgroup restrictions in finite group structure. 90j:20051

Khuranova, I. Kh. (with Shidov, L. I.) Lagrangian groups. (Russian) (see 90h:20005)

Miller, Andy A group theoretic characterization of the 2-dimensional spherical groups. 90j:20052

Mukherjee, N. P. see Khazal, Reyadh R., 90j:20051

Newman, M. F. see James, Rodney; et al., 90j:20050

O'Brien, E. A. see James, Rodney; et al., 90j:20050

Sangróniz, J. see Vera López, Antonio, 90d:20046

Shidov, L. I. see Khuranova, I. Kh., (90h:20005)

Shmakova, M. M. see Unachev, Kh. Ya., (90h:20005)

Unachev, Kh. Ya. (with Shmakova, M. M.) Independent subgroups of finite groups. (Russian) (see 90h:20005)

Vera López, Antonio (with Sangróniz, J.) Classification of all relative homomorphisms of an abelian group of type $C_4 \times C_4$. (Spanish. English summary) 90d:20046

Zhurlov, A. Kh. Finite groups with independent Schmidt subgroups. (Russian) (see 90h:20005)

Items with secondary classifications in 20D99

Arad, Zvi Survey on table algebras and applications to finite group theory. 90j:20013

Gromadzki, Grzegorz Maximal groups of automorphisms of compact Riemann surfaces in various classes of finite groups. (Spanish summary) 90d:30120

Kovács, L. G. Free groups in a dihedral variety. 90c:20030

Meĭnikov, Yu. B. The structure of supercopiable p -groups. 90h:20024

20Exx Structure and classification of infinite or finite groups

20E05 Free nonabelian groups

Abdel-Gawad, A. G. A. E. On automorphisms of free groups. 90c:20034

Alperin, Roger C. (with Peterson, Brian L.) Growth functions for residually torsion-free nilpotent groups. 90m:20029

Cornford, Leo P., Jr. (with Edmunds, Charles C.) On the rank of quadratic equations in free groups. 90h:20031

Edmunds, Charles C. see Cornford, Leo P., Jr., 90h:20031

Faiziev, V. A. Pseudocharacters on free groups and on some group constructions. 90a:20047

Hoare, A. H. M. On automorphisms of free groups. I. 90g:20033

Imrich, W. (with Turner, E. C.) Endomorphisms of free groups and their fixed points. 90f:20037

Kapur, Deepak (with Zhang, Hantao) Proving equivalence of different axiomatizations of free groups. 90a:20048

Khanfar, Mohammad I. Lengths in semifree groups. 90j:20053

Krstić, Sava On graphs representing automorphisms of free groups. 90h:20024

Peterson, Brian L. see Alperin, Roger C., 90m:20029

Shafarevich, I. R. Factors of decreasing central series. (Russian) 90c:20023

Turner, E. C. see Imrich, W., 90f:20037

Zhang, Hantao see Kapur, Deepak, 90a:20048

Items with secondary classifications in 20E05

Aomoto, K. Algebraic equations for Green kernel on a free group. 90a:58161

Benyash-Krivets, V. V. The transcendence basis of the field of functions of the variety of characters of a free group. (Russian. English summary) 90j:20026

Bryant, Roger M. (with Gupta, Chander Kanta) Automorphism groups of free nilpotent groups. 90c:20034

Cornford, Leo P., Jr. (with Edmunds, Charles C.) Solutions of equations in free groups. 90a:20067

Edmunds, Charles C. see Cornford, Leo P., Jr., 90a:20067

Gupta, Chander Kanta see Bryant, Roger M., 90c:20034

Higman, Graham Some countably free groups. 90a:20072

Kovács, L. G. Free groups in a dihedral variety. 90c:20030

Krstić, Sava Actions of finite groups on graphs and related automorphisms of free groups. 90i:20037

Macedońska, Olga The semigroup of endomorphisms of the free group of infinite rank. 90c:20059

McCool, James Some remarks on IA automorphisms of free groups. 90d:20057

Myasnikov, A. G. (with Remeslennikov, V. N.) Elementary equivalence of free operator groups with a length function and with a finitely generated group of operators. (Russian) 90c:03050

Picardello, Massimo A. (with Pytlík, Tadeusz) Norms of free operators. 90b:47016

Pytlík, Tadeusz see Picardello, Massimo A., 90b:47016

Remeslennikov, V. N. see Myasnikov, A. G., 90c:03050

Ribenboim, P. Equations in groups, with special emphasis on localization and torsion. II. 90j:20069

- Shalashov, V. K. An equation in a free group. 90a:20078
 White, Samuel The group generated by $x \mapsto x + 1$ and $x \mapsto x^p$ is free. 90a:20144

20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

- Allenby, R. B. J. T. (with Tang, C. Y.) On the residual finiteness of certain polygonal products. 90a:20024
 Andreadakis, S. (with Raptis, E.; Varsos, D.) Extending isomorphisms to automorphisms. 90j:20054
 Bergman, George M. Embedding arbitrary algebras in groups. 90a:20049
 Comerford, Leo P., Jr. (with Edmunds, Charles C.) The solvability of quadratic equations in free products of free groups with cyclic amalgamation. 90b:20032
 Edmunds, Charles C. see Comerford, Leo P., Jr., 90b:20032
 Howie, James The quotient of a free product of groups by a single high-powered relator. I. Pictures. Fifth and higher powers. 90j:20055
 Huang, Jian Hua (with Ma, Ji Xin; Stellmacher, Bernd) Amalgams of rank 2 in characteristic 3 involving $L_2(5)$. 90j:20056
 Kozy, H. L. see Wong, P. C., 90b:20033
 Krstić, Sava A uniqueness decomposition theorem for actions of finite groups on free groups. 90m:20030
 Lipschutz, Seymour Note on generalizing pregroups. 90j:20057
 Ma, Ji Xin see Huang, Jian Hua; et al., 90j:20056
 Raptis, E. (with Varsos, D.) Residual properties of HNN-extensions with base group an abelian group. 90g:20034
 — see also Andreadakis, S.; et al., 90j:20054
 Stellmacher, Bernd see Huang, Jian Hua; et al., 90j:20056
 Tang, C. Y. see Allenby, R. B. J. T., 90b:20024
 Tishin, Ya. V. Groups that are indecomposable into free constructions. (Russian. English summary) 90m:20031
 Varsos, D. see Raptis, E., 90j:20034 and Andreadakis, S.; et al., 90j:20054
 Wilson, John S. A note on products of abelian by finite groups. 90j:20058
 Wong, P. C. (with Kozy, H. L.) Generalised free products of isomorphic potent groups. 90a:20033

Items with secondary classifications in 20E06

- Baumslag, Gilbert (with Shalen, Peter B.) Groups whose three-generator subgroups are free. 90a:20041
 Bergman, Clifford (with McKenzie, R. N.) On the relationship of AP, RS and CEP in congruence modular varieties. II. 90f:00006
 Edjvet, M. A Magnus theorem for free products of locally indicable groups. 90a:20055
 Haanbecker, Torsten Relation modules of amalgamated free products and HNN extensions. 90a:20059
 Herfort, W. (with Ribes, Luis) Solvable subgroups of free products of profinite groups. 90a:20026
 Horadam, K. J. The conjugacy problem for finite graph products. 90a:20042
 Humphries, Stephen P. Free products in mapping class groups generated by Dehn twists. 90a:20024
 Lichtman, Alexander I. (with Sehgal, Sudarshan K.) The elements of finite order in the group of units of group rings of free products of groups. 90k:20012
 Lockhart, Jody Meyer An HNN-extension with cyclic associated subgroups and with unsolvable conjugacy problem. 90d:03086
 Matsumoto, Takao Any group is represented by an outerautomorphism group. 90g:20051
 McKenzie, R. N. see Bergman, Clifford, 90f:00006
 Niemennan, M. (with Rosenberger, Gerhard) On the infinity of the Loneragan-Hosack presentation. 90a:20034
 Renz, Burkhardt Geometric invariants and HNN-extensions. 90a:20075
 Ribes, Luis see Herfort, W., 90a:20026
 Rosenberger, Gerhard see Niemennan, M., 90a:20034
 Sehgal, Sudarshan K. see Lichtman, Alexander I., 90k:20012
 Shalen, Peter B. see Baumslag, Gilbert, 90a:20041

20E07 Subgroup theorems

- Brandl, Rolf (with Linnell, P. A.) Character degrees and CLT-groups. 90a:20035
 Dyadchenko, G. G. (with Shokuev, V. N.) Some tests for the normality of subgroups. (Russian) (see 90b:20005)
 Hekster, N. S. (with Lenstra, H. W., Jr.) Groups with finitely many nonnormal subgroups. 90j:20059
 Ivanov, S. V. Groups with polynormal and weakly abnormal subgroups. (Russian) (see 90b:20005)
 Kappe, Laise-Charlotte On power margins. 90b:20034
 Kil, Yong Chon Nonabelian groups in which the intersection of any two maximal abelian subgroups is the centre. (Korean. English summary) 90j:20060
 Lenstra, H. W., Jr. see Hekster, N. S., 90j:20059
 Levishchenko, S. S. (with Semko, N. N.) Constructive description of finite nonsupersolvable groups all of whose 2-maximal subgroups are metacyclic. (Russian) 90f:20038
 Linnell, P. A. see Brandl, Rolf, 90a:20035
 Mishchenko, B. I. Groups with some properties of complemented infinite subgroups. (Russian) 90b:20025
 Ofshanskii, A. Ya. Efficient embeddings of countable groups. (Russian) 90m:20032
 Otal, Javier (with Peña, Juan Manuel) Groups with minimal conditions related to finiteness properties on conjugacy classes. 90i:20029
 Peña, Juan Manuel see Otal, Javier, 90i:20029
 Semko, N. N. see Levishchenko, S. S., 90f:20038
 Shokuev, V. N. see Dyadchenko, G. G., (90b:20005)
 Shukhov, V. P. M_p groups with a regular handle. (Russian) 90f:20039
 Wang, Yan Ming Properties determined by two-generator subgroups. (Chinese. English summary) 90k:20051

Items with secondary classifications in 20E07

- Fine, Benjamin (with Howie, James; Rosenberger, Gerhard) Ree-Mendelsohn pairs in generalized triangle groups. 90a:20061
 Howie, James see Fine, Benjamin; et al., 90a:20061
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- Hekster, N. S. Varieties of groups and isologisms. 90a:20050
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- Casolo, Carlo Subgroups of finite index in generalized T-groups. 90a:20051
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 — Groups with finite conjugacy classes of subnormal subgroups. 90k:20052
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 — (with Ribes, Luis) On automorphisms of free pro- p -groups. I. 90d:20048
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- Ribes, Luis *see* Herfort, W., 90b:20026 and 90d:20048
- Simons, Lloyd D. Z_p -towers in Demuskin groups. 90b:20035
- Zaleskii, P. A. Nilpotent and solvable profinite groups acting on trees. (Russian. English summary) 90f:20042
- Solvable profinite groups that act on trees. (Russian. English summary) 90f:20032
- (with Mel'nikov, O. V.) Subgroups of profinite groups acting on trees. 90f:20041
- Geometric characterization of free constructions of profinite groups. 90e:20025
- Zukhov, A. N. The lattice of subvarieties of pro- p -groups has the power of the continuum. 90d:20049
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- Beale, Stephen (with Harrison, D. K.) Prime-like subobjects of a profinite group. 90a:13008
- Geyer, Wulf-Dieter (with Jarden, Moshe) On the normalizer of finitely generated subgroups of absolute Galois groups of uncountable Hilbertian fields of characteristic 0. 90a:12012
- Harrison, D. K. *see* Beale, Stephen, 90a:13008
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- Oger, Francis Elementary equivalence of a polycyclic-by-finite group and its profinite completion. 90f:20003
- Sushchanskii, V. I. Representation of residually finite groups by isometries of homogeneous ultrametric spaces of finite width. (Russian. English summary) 90d:20056
- Ware, Roger Automorphisms of Pythagorean fields and their Witt rings. 90g:11054
- Wingsberg, Kay Representations of locally profinite groups. (see 90m:11193)
- On Demuskin groups with involution. 90j:11121
- Zukhov, A. N. ★ Нижний центральный ряд про- p -группы общих матриц второго порядка. (Russian) [The lower central series of a pro- p -group of second-order general matrices] 90f:20050

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- Erlstova, E. D. Classes of conjugate elements of wreath products of some finite groups. (Russian) (see 90h:20005)
- Gilbert, N. D. (with Higgins, P. J.) The nonabelian tensor product of groups and related constructions. 90e:20026
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- Gupta, Narain *see* Gupta, Chander Kanta; et al., 90h:20036
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- Hilton, Peter John Groups with operators. 90g:20038
- Kovács, L. G. *see* Buzási, Károly, 90d:20050
- Kuzennyi, N. F. (with Subbotin, I. Ya.) Nonsplittable extensions of groups. (Russian) 90d:20051
- Leinen, Felix Amalgamation of locally finite p -groups over a countable FC-group. 90d:20052
- Levin, Frank *see* Gupta, Chander Kanta; et al., 90h:20036
- Ofshanskii, A. Yu. A. I. Mal'tsev's problem on operations over groups. (Russian. English summary) 90g:20039
- Rosenbaum, Kurt (with Schott, Brita) Vom Beispiel zur Theorie. Ergebnisse einer forschungsbezogenen Diplomarbeit. [From example to theory. Results of a research-oriented thesis] 90d:20053
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- Cannonito, F. B. On inequivalent group extensions. 90m:20067
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- Hilton, Peter John On the extended genus. 90m:20041
- Kovács, L. G. Wreath decompositions of finite permutation groups. 90j:20006
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- Rosenbaum, Kurt Die Untergruppen von halbdirekten Produkten. [The subgroups of semidirect products] 90e:20032

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- Casacuberta, Carles (with Hilton, Peter John) On special nilpotent groups. 90j:20077
- Celentani, Maria Rosaria (with Pirozzi, Maria) A characterization of locally finite modular groups. (Italian) 90f:20031

- Gupta, Chander Kanta (with Gupta, Narain; Levin, Frank) On conjugacy p -separability of free centre-by-metabelian groups. 90h:20036
- Gupta, Narain *see* Gupta, Chander Kanta; et al., 90h:20036
- Hilton, Peter John *see* Casacuberta, Carles, 90j:20077
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- Kurdachenko, L. A. (with Pylaev, V. V.) Groups that are dual to Dedekind groups. (Russian. English summary) 90j:20078
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- Subbotin, I. Ya. (with Kuzennyi, N. F.) Locally solvable groups in which all infinite subgroups are pronormal. 90a:20053

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- Alperin, Roger C. (with Peterson, Brian L.) Growth functions for residually torsion-free nilpotent groups. 90m:20029
- Andreadakis, S. (with Raptis, E.; Varsos, D.) Extending isomorphisms to automorphisms. 90j:20054
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- Raptis, E. (with Varsos, D.) Residual properties of HNN-extensions with base group an abelian group. 90g:20034
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- Shunkov, V. P. M_p groups with a regular handle. (Russian) 90f:20039
- Tang, C. Y. *see* Allenby, R. B. J. T., 90e:20024
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- Norton, S. P. (with Wilson, Robert A.) The maximal subgroups of $F_4(2)$ and its automorphism group. 90j:20064
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- Items with secondary classifications in 20E28
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- Chak'ryan, Keropé B. (with Petrov, Nikola) Maximal subgroups of ${}^2G_2(q)$. (Russian summary) 90k:20030
- Delpechère, Jean-François Sous-groupes hyper-résolubles transitifs du groupe symétrique de degré n . (English summary) [Supersolvable transitive subgroups of the symmetric group of degree n] 90m:20005
- Khazal, Reyadh R. A note on maximal subgroups in finite groups. 90j:20045
- (with Mukherjee, N. P.) A note on influence of subgroup restrictions in finite group structure. 90j:20051
- A note on minimal and maximal subgroups in a finite group. (Arabic summary) 90j:20035
- Li, Shang Zhi Overgroups of certain subgroups in the classical groups over division rings. 90e:20053
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- Kemmerich, Susanne (with Richter, M. M.) Bemerkungen über die Automorphismengruppe von homogenen Boole'schen Algebren. [Remarks on the automorphism group of homogeneous Boolean algebras] 90e:06027
- Kleidman, Peter B. (with Wilson, Robert A.) The maximal subgroups of $E_6(2)$ and $\text{Aut}(E_6(2))$. 90m:20034
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— (with Robertson, E. F.; Williams, P. D.) On presentations of $PSL(2, p^n)$. 90j:20066

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Curran, Peter M. Subgroups of finite index in certain classes of finitely presented groups. 90d:20059

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Fine, Benjamin (with Howie, James; Rosenberger, Gerhard) Ree-Mendelsohn pairs in generalized triangle groups. 90a:20061

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Levin, Frank (with Rosenberger, Gerhard) A class of SQ-universal groups. 90b:20028

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— (with Williams, P. D.) Efficient presentations of the groups $PSL(2, 2p)$ and $SL(2, 2p)$. 90a:20065

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— (with Otto, Friedrich) Commutativity in groups presented by finite Church-Rosser Thue systems. (French summary) 90a:20118

Otto, Friedrich *see* Madlener, Klaus, 90a:20117 and 90a:20118

- Pride, Stephen J. Involuntary presentations, with applications to Coxeter groups, NEC-groups, and groups of Kaneyvskii. 90g:20047
- Quintana, Ricardo, Jr. A bound on the order of finitely generated nilpotent groups with an exponent. 90k:20044
- Rosenberger, Gerhard. Minimal generating systems of a subgroup of $SL(2, C)$. 90g:20075
- Sawar, Ryszard. A short proof of the Grigorchuk-Cohen growth theorem. 90e:43002
- Toptais, Anestis A. New two-element generating sets for M_{22} , M_{23} , M_{24} . (see 90m:00036)
- Waterhouse, William C. Two generators for the general linear groups over finite fields. 90g:20069
- Weinbaum, C. M. Unique subwords in nonperiodic words. 90k:20097
- You, Hong (with Liu, Chang An). Automorphisms of a class of solvable groups. 90g:20044

20F06 Cancellation theory

- Howie, James. On the SQ-universality of $T(6)$ -groups. 90h:20044
- Juhász, Arye. Small cancellation theory with a unified small cancellation condition. I. 90j:20072
- Lysznok, I. G. Solutions of quadratic equations in groups with the small cancellation condition. 90b:20029

Items with secondary classifications in 20F06

- Gu, Zhi-Bin. Hyperbolic surfaces and quadratic equations in groups. 90g:20053
- Pride, Stephen J. Involuntary presentations, with applications to Coxeter groups, NEC-groups, and groups of Kaneyvskii. 90g:20047

20F10 Word problems, other decision problems, connections with logic and automata [see also 03D05, 03D40, 06B25, 08A50, 68Qxx]

- Aivazyan, S. V. A problem of A. I. Mal'tsev. 90c:20041
- Baumslag, Gilbert (with Gildenhuys, Dion; Strebel, Ralph). Algorithmically insoluble problems about finitely presented solvable groups, Lie and associative algebras. III. 90a:20066
- Comerford, Leo P., Jr. (with Edmunds, Charles C.) Solutions of equations in free groups. 90a:20067
- Edmunds, Charles C. see Comerford, Leo P., Jr., 90a:20067
- Frougny, Christiane (with Sakarovitch, Jacques; Schupp, Paul). Finiteness conditions on subgroups and formal language theory. 90a:20068
- Gildenhuys, Dion see Baumslag, Gilbert; et al., 90a:20066
- Goncharov, S. S. (with Molokov, A. V.; Romanovskii, N. S.) Nilpotent groups of finite algorithmic dimension. 90d:20061
- Gupta, Chander Kanta (with Herfort, W.; Levin, Frank). The conjugacy problem for centre-by-metabelian groups. 90e:20031
- Herfort, W. see Gupta, Chander Kanta; et al., 90e:20031
- Horadam, K. J. The conjugacy problem for finite graph products. 90c:20042
- Jacquemard, Alain. About the effective classification of conjugacy classes of braids. 90m:20036
- Juhász, Arye. The solution of the word problem in certain groups. 90f:20046
- Kharlamovich, O. G. The word problem in the variety $Z\mathfrak{N}_2\mathfrak{B}$. 90j:20073
- Levin, Frank see Gupta, Chander Kanta; et al., 90e:20031
- Madlener, Klaus (with Otto, Friedrich). Pseudonatural algorithms for finitely generated presentations of monoids and groups. 90f:20047
- Molokov, A. V. see Goncharov, S. S.; et al., 90d:20061
- Otto, Friedrich see Madlener, Klaus, 90f:20047
- Pride, Stephen J. Involuntary presentations, with applications to Coxeter groups, NEC-groups, and groups of Kaneyvskii. 90g:20047
- Romanovskii, N. S. see Goncharov, S. S.; et al., 90d:20061
- Sakarovitch, Jacques see Frougny, Christiane; et al., 90a:20068
- Schupp, Paul see Frougny, Christiane; et al., 90a:20068
- Strebel, Ralph see Baumslag, Gilbert; et al., 90a:20066
- Tsaranov, S. V. Classification of Coxeter-type monoids that have attractors. 90f:20048
- Vince, Andrew. Graphs and finitely presented groups. 90g:20048

Items with secondary classifications in 20F10

- Book, Ronald V. Dehn's algorithm and the complexity of word problems. 90k:03039
- Comerford, Leo P., Jr. (with Edmunds, Charles C.) The solvability of quadratic equations in free products of free groups with cyclic amalgamation. 90h:20032
- Edmunds, Charles C. see Comerford, Leo P., Jr., 90h:20032
- Jantzen, Matthias. Confluent string rewriting. 90d:68044
- Kharlamovich, O. G. The word problem for solvable Lie algebras and groups. (Russian) 90k:17008
- Lockhart, Jody Meyer. An HNN-extension with cyclic associated subgroups and with unsolvable conjugacy problem. 90d:03086
- Luks, Eugene M. (with McKenzie, P.) Parallel algorithms for solvable permutation groups. 90f:68094
- Leo, Li Bo. The upper bound complexity of abelian group theory. 90m:03076
- Lysznok, I. G. Solutions of quadratic equations in groups with the small cancellation condition. 90b:20029
- McKenzie, P. see Luks, Eugene M., 90f:68094
- Myasnikov, A. G. (with Remeslennikov, V. N.) Elementary equivalence of free operator groups with a length function and with a finitely generated group of operators. (Russian) 90a:03050
- (with Remeslennikov, V. N.) Model-theoretic problems in group theory. (Russian) 90h:03020
- Pride, Stephen J. Some problems in combinatorial group theory. 90k:20056
- Remeslennikov, V. N. see Myasnikov, A. G., 90a:03050 and 90h:03020
- Siekman, Jörg H. (with Szabo, Peter). The undecidability of the D_A -unification problem. 90f:03027
- Szabo, Peter¹ see Siekman, Jörg H., 90f:03027

- Tretkoff, Carol. Complexity, combinatorial group theory and the language of palutators. 90e:68039

20F12 Commutator calculus

- Dark, Rex S. see Newell, Martin L., 90h:20046
- Dennis, R. K. (with Vaserstein, L. N.) Commutators in linear groups. 90h:20045
- Gaglione, Anthony M. (with Waldinger, Hermann V.) A theorem in the commutator calculus. 90c:20043
- Melançon, Guy (with Reutenauer, Christophe). Lyndon words, free algebras and shuffles. 90j:20074
- Newell, Martin L. (with Dark, Rex S.) On metabelian groups of exponent eight. 90h:20046
- Reutenauer, Christophe see Melançon, Guy, 90j:20074
- Vaserstein, L. N. see Dennis, R. K., 90h:20045
- Waldinger, Hermann V. see Gaglione, Anthony M., 90c:20043

Items with secondary classifications in 20F12

- Brandl, Rolf. Commutators and Π -subgroups. 90i:20025
- Ellis, G. J. Higher-dimensional crossed modules of algebras. 90a:18010
- Horadam, K. J. The cohomology ring of a combinatorially aspherical group. 90j:20115
- Shalashov, V. K. A characteristic property of the commutator group of the group of colored braids. 90g:20054
- Székelyhidi, László. On the Levi-Civita functional equation. 90d:39011
- Tong, De Yu. On an example of Weier. 90k:55006

20F14 Derived series, central series, and generalizations

- Glasby, S. P. The composition and derived lengths of a soluble group. 90j:20075
- Robinson, Derek J. S. Reflections on the constructive theory of polycyclic groups. 90j:20076
- Rosset, Shmuel. A higher analogue of the lower central series and some applications of it. (French summary) 90m:20037
- Zerck, Rainer. On the homology of the higher relation modules. 90f:20049
- Zubkov, A. N. ★ Нижний центральный ряд про- p -группы общих матриц второго порядка. (Russian) [The lower central series of a pro- p -group of second-order general matrices] 90f:20050

Items with secondary classifications in 20F14

- Alperin, Roger C. (with Peterson, Brian L.) Growth functions for residually torsion-free nilpotent groups. 90m:20029
- Brandl, Rolf. Commutators and Π -subgroups. 90i:20025
- Falk, Michael J. (with Randell, R.) Pure braid groups and products of free groups. 90d:20070
- Grigorchuk, R. I. On the Hilbert-Poincaré series of graded algebras that are associated with groups. 90j:20063
- Hekster, N. S. Varieties of groups and isologisms. 90a:20050
- Peterson, Brian L. see Alperin, Roger C., 90m:20029
- Randell, R. see Falk, Michael J., 90d:20070
- Shafarevich, I. R. Factors of decreasing central series. (Russian) 90e:20023

20F16 Solvable groups, supersolvable groups

- Ahmad, Abrar see Yadav, N. S., (Not in MR)
- Amberg, Bernhard (with Franciosi, Silvana; de Giovanni, Francesco). Soluble groups which are the product of a nilpotent and a polycyclic subgroup. 90d:20062
- Infinite factorized groups. 90k:20060
- Asaad, M. (with Shaalan, A.) On the supersolvability of finite groups. 90h:20047
- Beidleman, James C. (with Karbe, M. J.; Tomkinson, M. J.) Fitting classes of \mathfrak{N}_1 -groups. I. 90d:20063
- Franciosi, Silvana (with de Giovanni, Francesco). Soluble groups with many nilpotent quotients. 90m:20038
- see also Amberg, Bernhard; et al., 90d:20062
- de Giovanni, Francesco see Amberg, Bernhard; et al., 90d:20062 and Franciosi, Silvana, 90m:20038
- Isaacs, I. M. Dual modules and group actions on extra-special groups. 90f:20051
- Karbe, M. J. see Beidleman, James C.; et al., 90d:20063
- Kuzennyi, N. F. (with Semko, N. N.) The structure of periodic nonabelian meta-Hamiltonian groups with an elementary commutator subgroup of rank three. 90b:20030
- Ortaçgil, Ercüment. Fields hidden in groups. (Turkish summary) 90d:20064
- Rhemtulla, Akbar H. Groups with many elliptic subgroups. 90m:20039
- (with Sidki, Said). Factorizable infinite solvable groups. 90d:20065
- Semko, N. N. see Kuzennyi, N. F., 90b:20030
- Shaalan, A. see Asaad, M., 90h:20047
- Sidki, Said see Rhemtulla, Akbar H., 90d:20065
- Tomkinson, M. J. Infinite quasi-injective groups. 90d:20066
- see also Beidleman, James C.; et al., 90d:20063
- Tuzov, A. N. Complementability of subgroups in Chernikov A -groups. (Russian) 90a:20069
- Yadav, N. S. (with Ahmad, Abrar). On strongly center solvable group. (Not in MR)

Items with secondary classifications in 20F16

- Baudisch, Andreas. On the model theory of free metabelian groups of bounded exponent. 90j:03084
- Bhattacharya, Prabir (with Mukherjee, N. P.). Correction to: "A family of maximal subgroups containing the Sylow subgroups and some solvability conditions" [Arch. Math. (Basel) 45 (1985), no. 5, 390–397; MR 87b:20028]. 90g:20021a
- see also Zhang, Bao Lin², 90g:20021b
- Casolo, Carlo. Groups with finite conjugacy classes of subnormal subgroups. 90k:20052
- Darnel, Michael R. (with Glass, A. M. W.). Commutator relations and identities in lattice-ordered groups. 90i:06020

Enochs, Kathryn (with Nesin, Ali) On 2-step solvable groups of finite Morley rank. 90m:03068

Glashy, S. P. The composition and derived lengths of a soluble group. 90j:20075

Glass, A. M. W. see Darnel, Michael R., 90i:06020

Guo, Xiu Yun see Zhang, Bao Lin², 90g:20021b

Hursey, Robert J. On nilpotent and polycyclic groups. 90k:06028

Kegel, O. H. Automorphisms. 90a:20055

Kim, Pan Soo (with Rhemtulla, Akbar H.) Permutable word products in groups. 90h:20059

Krasil'nikov, A. N. (with Shmel'kin, A. L.) On the laws of finite-dimensional representations of solvable Lie algebras and groups. 90h:17020

Kuzenniy, N. F. see Subbotin, I. Ya., 90a:20053

Möhres, Walter Torsionsfreie Gruppen, deren Untergruppen alle subnormal sind. [Torsion-free groups all of whose subgroups are subnormal] 90d:20047

— Auflösbare Gruppen mit endlichem Exponenten, deren Untergruppen alle subnormal sind. I, II. [Solvable groups of finite exponent all of whose subgroups are subnormal. I, II] 90k:20053

Mukherjee, N. P. see Bhattacharya, Prabir, 90g:20021a and Zhang, Bao Lin², 90g:20021b

Nesin, Ali Solvable groups of finite Morley rank. 90d:03068

— see also Enochs, Kathryn, 90m:03068

Polovinskiĭ, Ya. D. Locally finite groups with Chernikov conjugacy classes of infinite abelian subgroups. 90a:20073

Rhemtulla, Akbar H. see Kim, Pan Soo, 90h:20059

Shmel'kin, A. L. see Krasil'nikov, A. N., 90h:17020

Smirnov, M. B. Adjoint groups of nilalgebras of exponent 4 over a field of characteristic 2. (Russian. English summary) 90a:16015

Smith, Howard Elliptically embedded subgroups and nilpotent products. 90k:20054

Subbotin, I. Ya. (with Kuzenniy, N. F.) Locally solvable groups in which all infinite subgroups are pronormal. 90a:20053

Tsuboi, Akito On a property of ω -stable solvable groups. 90a:03046

Zhang, Bao Lin² (with Guo, Xiu Yun) Comment: "A family of maximal subgroups containing the Sylow subgroups and some solvability conditions" [Arch. Math. (Basel) 45 (1985), no. 5, 390–397; MR 87b:20028] by P. Bhattacharya and N. P. Mukherjee. (Chinese) 90g:20021b

Zhu, De Gao Constructing groups of order 2^3p for odd primes $p \neq 3, 7$. (Chinese) 90c:20016

20F17 Formations of groups [see also 20D10]

Items with secondary classifications in 20F17

Ballester-Boliches, A. \mathfrak{h} -normalizers and local definitions of saturated formations of finite groups. 90j:20032

Hofmann, Mark C. Locally constructed formations. 90m:20022

Shemetkov, L. A. New ideas and results in the theory of formations. (Russian) 90i:20023

20F18 Nilpotent groups

Casacuberta, Carles (with Hilton, Peter John) On special nilpotent groups. 90j:20077

Drobotov, B. N. see Goncharov, S. S., 90g:20049

Endimioni, Gérard Conditions de nilpotence dans certaines variétés de groupes. (English summary) [Conditions for nilpotency in certain varieties of groups] 90m:20040

Goncharov, S. S. (with Drobotov, B. N.) The algorithmic dimension of nilpotent groups. 90g:20049

Hilton, Peter John On the extended genus. 90m:20041

— see also Casacuberta, Carles, 90j:20077

Mäler, Berthold J. On universal nilpotent groups. 90g:20050

Verardi, Libero Vector spaces of invertible matrices and associated groups. (Italian. English summary) 90m:20042

Weber, Bernhard ★ Zur Rationalität polynomialer Wachstumsfunktionen. (German) [On the rationality of polynomial growth functions] 90h:20048

Items with secondary classifications in 20F18

Alperin, Roger C. (with Peterson, Brian L.) Growth functions for residually torsion-free nilpotent groups. 90m:20029

Bordi, A. A. (with Khripta, I. I.) Generalized nilpotence of the multiplicative group of a group ring. 90j:20012

Brookes, C. J. B. Stabilisers of injective modules over nilpotent groups. 90h:20008

Bryant, Roger M. (with Gupta, Chander Kanta) Automorphism groups of free nilpotent groups. 90c:20034

— (with Papistas, A.) Automorphism groups of nilpotent groups. 90h:20052

Burns, R. G. (with Pi, Lian) Generators for the bounded automorphisms of infinite-rank free nilpotent groups. 90i:20033

Dark, Rex S. see Newell, Martin L., 90h:20046

Darnel, Michael R. (with Glass, A. M. W.) Commutator relations and identities in lattice-ordered groups. 90i:06020

Endimioni, Gérard Une condition suffisante pour qu'un groupe d'Engel soit nilpotent. (English summary) [A sufficient condition for an Engel group to be nilpotent] 90e:20036

Franciosi, Silvana (with de Giovanni, Francesco) Soluble groups with many nilpotent quotients. 90m:20038

de Giovanni, Francesco see Franciosi, Silvana, 90m:20038

Glass, A. M. W. see Darnel, Michael R., 90i:06020

Goncharov, S. S. (with Molokov, A. V.; Romanovskii, N. S.) Nilpotent groups of finite algorithmic dimension. 90d:20061

Gupta, Chander Kanta Automorphisms of certain relatively free solvable groups. (see 90h:20004)

— see also Bryant, Roger M., 90c:20034

Hekster, N. S. (with Lenstra, H. W., Jr.) Groups with finitely many nonnormal subgroups. 90j:20059

Hoebschmann, Johannes Perturbation theory and free resolutions for nilpotent groups of class 2. 90m:20060

— Cohomology of nilpotent groups of class 2. 90m:20061

Hursey, Robert J. On nilpotent and polycyclic groups. 90k:06028

Khripta, I. I. see Bordi, A. A., 90j:20012

Khukhro, E. I. Nilpotent periodic groups with an almost regular automorphism of prime order. (Russian) 90h:20058

— Nilpotent p -groups and their automorphisms. (Russian) 90m:20024

Konyukh, V. S. On the theory of locally nilpotent linear groups. (Russian. English summary) 90k:20082

Kovacs, L. G. Groups with uniform automorphisms. 90h:20039

Lenstra, H. W., Jr. see Hekster, N. S., 90j:20059

Möhres, Walter Torsionsgruppen, deren Untergruppen alle subnormal sind. (English summary) [Torsion groups all of whose subgroups are subnormal] 90i:20035

Molokov, A. V. see Goncharov, S. S.; et al., 90d:20062

Newell, Martin L. (with Dark, Rex S.) On metabelian groups of exponent eight. 90h:20046

Papistas, A. see Bryant, Roger M., 90h:20052

Peterson, Brian L. see Alperin, Roger C., 90m:20029

Pi, Lian see Burns, R. G., 90i:20033

Quintana, Ricardo, Jr. A bound on the order of finitely generated nilpotent groups with an exponent. 90k:20044

Rao, Vidhyanath Morphisms inverted by profinite completion. 90d:55018

Ribenboim, P. Equations in groups, with special emphasis on localization and torsion. II. 90j:20069

Romanovskii, N. S. see Goncharov, S. S.; et al., 90d:20061

Segal, Dan On the automorphism groups of certain Lie algebras. 90e:17022

Seifert, Norbert Nilpotent groups and transitive graphs. 90a:05096

Timmesfeld, F. G. A remark on a theorem of Baer. 90k:20066

Videla, Carlos R. On the Mal'cev correspondence. 90i:20047

20F19 Generalizations of solvable and nilpotent groups

Amberg, Bernhard (with Franciosi, Silvana; de Giovanni, Francesco) Groups with an FC-nilpotent triple factorization. 90a:20070

Bruno, Brunella On p -groups with "nilpotent-by-finite" proper subgroups. (Italian summary) 90a:20071

Fan, Yun Weakly supersolvable groups. (Chinese) 90c:20032

Franciosi, Silvana see Amberg, Bernhard; et al., 90a:20070

de Giovanni, Francesco see Amberg, Bernhard; et al., 90a:20070

Kurdachenko, L. A. (with Pylae, V. V.) Groups that are dual to Dedekind groups. (Russian. English summary) 90j:20078

Otal, Javier (with Peña, Juan Manuel) Locally graded groups with certain minimal conditions for subgroups. II. 90c:20033

Peña, Juan Manuel see Otal, Javier, 90c:20033

Pylae, V. V. see Kurdachenko, L. A., 90j:20078

Smith, Howard On torsion-free hypercentral groups with all subgroups subnormal. 90h:20049

Tushet, A. V. A class of periodic groups with a complemented locally nilpotent coradical. (Russian) 90k:20061

Items with secondary classifications in 20F19

Belyaev, V. V. Locally inner endomorphisms of SF-groups. 90f:20043

Ensel, Helmut Die Automorphismengruppe der abzählbaren, existentiell abgeschlossenen \mathcal{P}_A -Gruppe E_A . [The automorphism group of the countable, existentially closed \mathcal{P}_A -group E_A] 90c:20046

— Existentiell abgeschlossene Sylowturmguppen. [Existentially closed Sylow tower groups] 90c:20047

Fabrykowski, Jacek (with Gupta, Narain) On groups with sub-exponential growth functions. 90c:20029

Grigorchuk, R. I. On the Hilbert-Poincaré series of graded algebras that are associated with groups. 90j:20063

Gupta, Narain see Fabrykowski, Jacek, 90c:20029

Kovacs, L. G. Groups with uniform automorphisms. 90h:20039

Wilson, John S. A note on products of abelian by finite groups. 90j:20058

20F22 Other classes of groups defined by subgroup chains

Higman, Graham Some countably free groups. 90a:20072

Kuzenniy, N. F. see Subbotin, I. Ya., 90a:20044

Subbotin, I. Ya. (with Kuzenniy, N. F.) Groups with a transitivity condition. (Russian) 90c:20044

Items with secondary classifications in 20F22

Amberg, Bernhard (with Franciosi, Silvana; de Giovanni, Francesco) Soluble groups which are the product of a nilpotent and a polycyclic subgroup. 90d:20062

Bryce, R. A. A note on subnormal defect in finite soluble groups. 90d:20042

Casolo, Carlo Subgroups of finite index in generalized T-groups. 90a:20051

— Soluble groups with finite Wielandt length. 90j:20062

Franciosi, Silvana see Amberg, Bernhard; et al., 90d:20062

de Giovanni, Francesco see Amberg, Bernhard; et al., 90d:20062

Heineken, Hermann Groups with restriction on their infinite subnormal subgroups. 90e:20040

Otal, Javier (with Peña, Juan Manuel) Locally graded groups with certain minimal conditions for subgroups. II. 90c:20033

Peña, Juan Manuel see Otal, Javier, 90c:20033

Zaitsev, D. I. Hyperfinite extensions of abelian groups. (Russian) 90d:20054

20F24 FC-groups and their generalizations

Brandl, Ralf General bounds for permutability in finite groups. 90h:20050

Kurdachenko, L. A. Some classes of FC-groups. (Russian) 90d:20067

- Marach, V. S. Two classes of groups that can be defined by the properties of cyclic and finitely generated subgroups. (Russian) 90c:20045
 Polovitskiĭ, Ya. D. Locally finite groups with Chernikov conjugacy classes of infinite abelian subgroups. 90a:20073

Items with secondary classifications in 20F24

- Blyth, Russell D. Rewriting products of group elements. I. 90b:20033
 — Rewriting products of group elements. II. 90b:20034
 — (with Robinson, Derek J. S.) Recent progress on rewritability in groups. 90b:20035
 — (with Rhemtulla, Akbar H.) Rewritable products in FC-by-finite groups. 90d:20074
 Fay, Temple H. (with Walls, Gary L.) Compact nilpotent groups. 90j:22001
 Kurucuoğlu, Mahmut (with Phillips, Richard E.) Locally finite minimal non-FC-groups. 90d:20055
 Leinen, Felix Amalgamation of locally finite p -groups over a countable FC-group. 90d:20052
 Phillips, Richard E. see Kurucuoğlu, Mahmut, 90d:20055
 Rhemtulla, Akbar H. see Blyth, Russell D., 90d:20074
 Robinson, Derek J. S. see Blyth, Russell D., 90b:20035
 Walls, Gary L. see Fay, Temple H., 90j:22001

20F26 Special subgroups

- Möhres, Walter Torsionsgruppen, deren Untergruppen alle subnormal sind. (English summary) [Torsion groups all of whose subgroups are subnormal.] 90c:20035

Items with secondary classifications in 20F26

- Smith, Howard Elliptically embedded subgroups and nilpotent products. 90k:20054

20F28 Automorphism groups of groups [see also 20E36]

- Bachmuth, Seymour (with Mochizuki, H. Y.) The tame range of automorphism groups and GL_n. 90b:20031
 — (with Mochizuki, H. Y.) Infinite generation of automorphism groups. (see 90b:20004)
 — (with Mochizuki, H. Y.) Can automorphism groups ever be infinitely generated in more than a finite number of dimensions? 90b:20051
 Bryant, Roger M. (with Gupta, Chander Kanta) Automorphism groups of free nilpotent groups. 90c:20034
 — (with Papistas, A.) Automorphism groups of nilpotent groups. 90b:20052
 Collins, Donald J. Cohomological dimension and symmetric automorphisms of a free group. 90c:20035
 Curzio, Mario (with Robinson, Derek J. S.; Smith, Howard; Wiegold, James) Some remarks on central automorphisms of hypercentral groups. 90b:20053
 — (with Franciosi, Silvana; de Giovanni, Francesco) On automorphisms fixing infinite subgroups of groups. 90k:20062
 Easels, Helmer Die Automorphismengruppe der abzählbaren, existentiell abgeschlossenen \mathcal{P}_A -Gruppe E_A . [The automorphism group of the countable, existentially closed \mathcal{P}_A -group E_A] 90c:20046
 — Existentiell abgeschlossene Sylowturmguppen. [Existentially closed Sylow tower groups] 90c:20047
 Evans, Martin J. Freely decomposable automorphism groups. 90d:20068
 Franciosi, Silvana see Curzio, Mario; et al., 90k:20062
 de Giovanni, Francesco see Curzio, Mario; et al., 90k:20062
 Gupta, Chander Kanta Automorphisms of certain relatively free solvable groups. (see 90b:20004)
 — (with Levin, Frank) Automorphisms of nilpotent-by-abelian groups. 90i:20036
 — see also Bryant, Roger M., 90c:20034
 Krstić, Sava Actions of finite groups on graphs and related automorphisms of free groups. 90i:20037
 Levin, Frank see Gupta, Chander Kanta, 90i:20036
 Matumoto, Takao Any group is represented by an outerautomorphism group. 90g:20051
 McCool, James A faithful polynomial representation of Out F_3 . 90j:20079
 Mochizuki, H. Y. see Bachmuth, Seymour, 90b:20031; 90b:20051 and (90b:20004)
 Papistas, A. see Bryant, Roger M., 90b:20052
 Robinson, Derek J. S. see Curzio, Mario; et al., 90b:20053
 Servatius, Herman Automorphisms of graph groups. 90m:20043
 Smith, Howard see Curzio, Mario; et al., 90b:20053
 Wiegold, James see Curzio, Mario; et al., 90b:20053

Items with secondary classifications in 20F28

- Abbas, G. Q. Central products of some metabelian p -groups of maximal class. 90b:20022
 Abdel-Gawad, A. G. A. E. On automorphisms of free groups. 90c:20034
 Bryant, Roger M. (with Macedońska, Olga) Automorphisms of relatively free nilpotent groups of infinite rank. 90c:20028
 Burns, R. G. (with Pi, Lian) Generators for the bounded automorphisms of infinite-rank free nilpotent groups. 90c:20033
 Humphries, Stephen P. Free products in mapping class groups generated by Dehn twists. 90c:57024
 Ihara, Yasutaka Arithmetic analogues of braid groups and Galois representations. 90h:11105
 Kaneko, Masanobu Certain automorphism groups of pro- l fundamental groups of punctured Riemann surfaces. 90j:14019
 Li, Fu An (with Ren, Hong Shuo) The automorphisms of two-dimensional linear groups over commutative rings. 90c:20043
 Macedońska, Olga see Bryant, Roger M., 90c:20028
 Pettet, Martin R. Central automorphisms of periodic groups. 90a:20057
 Pi, Lian see Burns, R. G., 90c:20033
 Ren, Hong Shuo see Li, Fu An, 90c:20043

20F29 Representations of groups as automorphism groups of algebraic systems

- Aschbacher, Michael The 27-dimensional module for E_6 . III. 90m:20044
 Borovik, A. V. Automorphism groups of polylinear forms and mappings. 90k:20063

Items with secondary classifications in 20F29

- Jensen, C. U. On the representations of a group as a Galois group over an arbitrary field. 90k:12006
 Schlichting, Günter On the periodicity of group operations. 90d:20008
 Serre, Jean-Pierre Groupes de Galois sur \mathbb{Q} . [Galois groups over \mathbb{Q}] 90i:11131

20F32 Geometric group theory [see also 05C25, 20Exx, 20Gxx]

- Blukhina, A. P. On the centralizer of a Coxeter element. (Russian) 90k:20064
 Conder, Marston Reidemeister-Schreier in disguise. 90a:20074
 Droms, Carl see Servatius, Herman; et al., 90f:20052
 Dunwoody, M. J. Bounding the decomposition of a Poincaré duality group. 90g:20052
 Fennessey, Eric J. (with Pride, Stephen J.) Equivalences of two-complexes, with applications to NEC-groups. 90j:20080
 Gu, Zhi-Bin Hyperbolic surfaces and quadratic equations in groups. 90g:20053
 Hall, J. I. Graphs, geometry, 3-transpositions, and symplectic F_2 -transvection groups. 90m:20045a
 — Some 3-transposition groups with normal 2-subgroups. 90m:20045b
 Morgan, John W. Ergodic theory and free actions of groups on \mathbb{R} -trees. 90d:20069
 Pisanski, Tomaž (with Tucker, Thomas W.) The genus of the product of a group with an abelian group. 90h:20054
 Pride, Stephen J. see Fennessey, Eric J., 90j:20080
 Renz, Burkhardt Geometric invariants and HNN-extensions. 90a:20075
 Servatius, Brigitte see Servatius, Herman; et al., 90f:20052
 Servatius, Herman (with Droms, Carl; Servatius, Brigitte) Surface subgroups of graph groups. 90f:20052
 Timmesfeld, F. G. Classical locally finite Tits chamber systems of rank 3. 90i:20038
 Tucker, Thomas W. see Pisanski, Tomaž, 90h:20054
 Ustimenko, V. A. Groups, quasigroups and Tits geometries. (Russian) 90m:20046
 Wilkens, David L. Bounded group actions on trees and hyperbolic and Lyndon length functions. 90i:20039

Items with secondary classifications in 20F32

- Armstrong, M. A. ★ Groups and symmetry. 90b:20001
 Bieri, Robert (with Renz, Burkhardt) Valuations on free resolutions and higher geometric invariants of groups. 90a:20106
 Brin, Matthew G. (with Rauschenberg, David E.; Squier, Craig C.) On the genus of the semidirect product of Z_2 by Z_3 . 90d:05085
 Cohen, Marshall M. (with Lustig, Martin) On the dynamics and the fixed subgroup of a free group automorphism. 90m:57004
 Evans, Anthony B. Orthomorphism graphs of groups. 90d:51005
 Harvey, W. J. Modular groups and representation spaces. 90a:14037
 Hevia, Héctor (with Levinson, H.) Cylindric embeddings of P.S. and W.P.S. planar Cayley diagrams. 90h:05045
 Huang, Jian Hua (with Li, Hui Ling) Buildings, amalgams and incidence geometries. I. BN -pairs and amalgams. (Chinese. English summary) 90k:20028
 Lee, Yoon W. On normal torsion-free finite index subgroups of polyhedral groups. 90d:57047
 Levinson, H. see Hevia, Héctor, 90h:05045
 Li, Hui Ling see Huang, Jian Hua, 90k:20028
 Lustig, Martin see Cohen, Marshall M., 90m:57004
 Ol'shanskii, A. Ya. Efficient embeddings of countable groups. (Russian) 90m:20032
 Paulin, Frédéric The Gromov topology on \mathbb{R} -trees. 90k:57015
 Rauschenberg, David E. see Brin, Matthew G.; et al., 90d:05085
 Renz, Burkhardt see Bieri, Robert, 90a:20106
 Scapellato, Raffaele Commutativity graphs of groups. (Italian summary) 90h:05068
 Schmeichel, Irmgard Vertauschbare Elemente in der Automorphismengruppe von kantengefärbten Graphen. [Interchangeable elements in the automorphism group of edge-colored graphs] 90d:05117
 Shee, Sze Chia (with Teh, H. H.) An application of groups to the topology design of connection machines. 90b:05063
 Skora, Richard K. Splittings of surfaces. 90k:57016
 Squier, Craig C. see Brin, Matthew G.; et al., 90d:05085
 Teh, H. H. see Shee, Sze Chia, 90b:05063
 Yoshiara, Satoshi Some geometries for J_3 and $O'N$. 90j:20031

20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx]

- Mednykh, Al. D. On the number of subgroups in the fundamental group of a closed surface. 90a:20076

Items with secondary classifications in 20F34

- Chiaivacci, Rossana Colored pseudocomplexes and their fundamental groups. (Italian. English summary) 90c:57002
 Droms, Carl see Servatius, Herman; et al., 90f:20052
 Goldman, William M. Geometric structures on manifolds and varieties of representations. 90i:57024
 Humphries, Stephen P. (with Johnson, Dennis L.) A generalization of winding number functions on surfaces. 90c:57008
 Johnson, Dennis L. see Humphries, Stephen P., 90c:57008
 Kato, Mitsuyoshi On some abelian complex reflection groups. 90k:32093
 Morita, Shigeyuki Families of Jacobian manifolds and characteristic classes of surface bundles. II. 90a:57041

- On the structure and the homology of the Torelli group. 90h:57015
 Paternain, Miguel Expansive flows and the fundamental group. 90m:58160
 Servatius, Brigitte *see* Servatius, Herman; et al., 90f:20052
 Servatius, Herman (with Droms, Carl; Servatius, Brigitte) Surface subgroups of graph groups. 90f:20052
 Takahashi, Moto-o On the presentations of the fundamental groups of 3-manifolds. 90g:57010
 Wei, Guofang On the fundamental groups of manifolds with almost nonnegative Ricci curvature. 90m:53058
 Yetter, David N. Markov algebras. 90h:57011

20F36 Braid groups

- Bacry, H. A crystallographic representation of the braid group. 90f:20053
 Cohen, Frederick R. Artin's braid groups, classical homotopy theory, and sundry other curiosities. 90a:20077
 Falk, Michael J. (with Randell, R.) Pure braid groups and products of free groups. 90d:20070
 Frenkel, E. V. Cohomology of the commutator subgroup of the braid group. 90h:20055
 Khutmann, Paul Hurwitz action and finite quotients of braid groups. 90d:20071
 Kohno, Toshiaki Linear representations of braid groups and classical Yang-Baxter equations. 90h:20056
 Long, D. D. On the linear representation of braid groups. II. 90j:20081
 Randell, R. *see* Falk, Michael J., 90d:20070
 Shalashov, V. K. An equation in a free group. 90a:20078
 — A characteristic property of the commutator group of the group of colored braids. 90g:20054

Items with secondary classifications in 20F36

- Akutsu, Yasuhiro *see* Wadati, Miki; et al., 90j:57006
 Aomoto, K. A construction of integrable differential system associated with braid groups. 90h:14017
 Birman, Joan S. (with Wenzl, Hans) Braids, link polynomials and a new algebra. 90g:57004
 Brieskorn, E. Automorphic sets and braids and singularities. 90a:32024
 Carr, R. R. A polynomial link invariant, braid groups and the XXZ chain. 90k:57004
 Deguchi, Tetsuo *see* Wadati, Miki; et al., 90f:57015 and 90j:57006
 Fried, Michael D. Combinatorial computation of moduli dimension of Nielsen classes of covers. 90j:12007
 Hansen, Vagn Lundsgaard Polynomial covering maps. 90c:57001
 Imbo, Tom D. *see* Sudarshan, E. C. G.; et al., 90g:81093
 Ito, H. (with Sevin, A.) Braiding matrices of conformal blocks and coset models. 90j:81208
 Jacquemard, Alain About the effective classification of conjugacy classes of braids. 90m:20036
 Jiang, Bo Ju Application of braids to fixed points of surface maps. 90b:55001
 Kohno, Toshiaki (with Oda, Takayuki) The lower central series of the pure braid group of an algebraic curve. 90a:14026
 — One-parameter family of linear representations of Artin's braid groups. 90d:32025
 — Hecke algebra representations of braid groups and classical Yang-Baxter equations. 90a:17016
 Mikanin, G. S. An analogue of the Alexander-Markov theorem. 90d:57005
 Moishezon, B. (with Teicher, M.) Braid group technique in complex geometry. I. Line arrangements in CP^2 . 90f:32014
 Müller, Jesper Michael Polynomial complements. 90e:55030
 Morton, H. R. Polynomials from braids. 90b:57003
 Oda, Takayuki *see* Kohno, Toshiaki, 90a:14026
 Orlik, Peter (with Solomon, Louis) Braids and discriminants. 90g:57001
 Przytycki, Józef H. I_2 moves on links. 90b:57004
 Rehren, Karl-Henning (with Schroer, Bert) Einstein causality and Artin braids. 90g:81120
 Schroer, Bert Algebraic aspects of nonperturbative quantum field theories. 90b:81058
 — *see also* Rehren, Karl-Henning, 90g:81120
 Sevin, A. *see* Ito, H., 90j:81208
 Shah Imbo, Chandni *see* Sudarshan, E. C. G.; et al., 90g:81093
 Solomon, Louis *see* Orlik, Peter, 90g:57001
 Sudarshan, E. C. G. (with Imbo, Tom D.; Shah Imbo, Chandni) Topological and algebraic aspects of quantization: symmetries and statistics. (French summary) 90g:81093
 Teicher, M. *see* Moishezon, B., 90f:32014
 Vasil'ev, V. A. Cohomology of braid groups and the complexity of algorithms. 90i:32019
 Wadati, Miki (with Yamada, Yasuhiko; Deguchi, Tetsuo) Knot theory and conformal field theory: reductions relation for braid generators. 90f:57015
 — (with Deguchi, Tetsuo; Akutsu, Yasuhiro) Exactly solvable models and knot theory. 90j:57006
 Wenzl, Hans *see* Birman, Joan S., 90g:57004
 Yamada, Yasuhiko *see* Wadati, Miki; et al., 90f:57015

20F38 Other groups related to topology or analysis

- Wood, Jay A. Spinor groups and algebraic coding theory. 90t:20040
 Items with secondary classifications in 20F38
 Artega, Carlos Centralizers of immersions of the circle. 90k:58099
 Beukers, F. (with Heckman, Gert) Monodromy for the hypergeometric function F_{a-1} . 90f:11034
 Birman, Joan S. Mapping class groups of surfaces. 90g:57013
 de la Harpe, Pierre Groupes hyperboliques, algèbres d'opérateurs et un théorème de Jolissaint. (English summary) [Hyperbolic groups, operator algebras and Jolissaint's theorem] 90d:22005
 Heckman, Gert *see* Beukers, F., 90f:11034

- Hillman, J. A. Two-knot groups with torsion free abelian normal subgroups of rank two. 90a:57033
 Hinkkanen, A. The structure of certain quasimetric groups. 90d:30063
 Lewin, Jacques The growth function of a graph group. 90c:20040
 Rubin, Matatyahu On the reconstruction of topological spaces from their groups of homeomorphisms. 90g:54044
 Song, Ming Jie *see* Zhang, Guang Hua, (Not in MR)
 Zhang, Guang Hua (with Song, Ming Jie) Groups of fixed-point-free rational automorphisms of 4-dimensional algebraic tori. (Chinese. English summary) (Not in MR)

20F40 Associated Lie structures

- Labute, J. The Lie algebra associated to the lower central series of a link group and Murasugi's conjecture. 90k:20065
 Zerk, Rainer On the fixed points of the Lie ring associated with a free presentation of a finite group. 90d:20072
 Items with secondary classifications in 20F40
 Adyan, S. I. (with Razborov, A. A.; Repin, N. N.) Upper and lower bounds for nilpotency classes of Lie algebras with Engel conditions. 90c:17015
 Razborov, A. A. *see* Adyan, S. I.; et al., 90c:17015
 Repin, N. N. *see* Adyan, S. I.; et al., 90c:17015
 Zelmanov, E. I. Some problems in the theory of groups and Lie algebras. 90f:17024
 Zerk, Rainer On the homology of the higher relation modules. 90f:20049

20F45 Engel conditions

- Brandl, Rolf (with Kappe, Luise-Charlotte) On n -Bell groups. 90c:20048
 Endimioni, Gérard Une condition suffisante pour qu'un groupe d'Engel soit nilpotent. (English summary) [A sufficient condition for an Engel group to be nilpotent] 90c:20036
 Heineken, Hermann On E -groups in the sense of Peng. 90g:20055
 Kappe, Luise-Charlotte *see* Brandl, Rolf, 90c:20048
 Timmesfeld, F. G. A remark on a theorem of Baer. 90k:20066

Items with secondary classifications in 20F45

- Kappe, Luise-Charlotte On power margins. 90h:20034
 Zelmanov, E. I. On Engel Lie algebras. 90a:17010

20F50 Periodic groups

- Adyan, S. I. (with Repin, N. N.) Lower bounds on the order of maximal periodic groups of prime period. 90f:20054
 Belyaev, V. V. Groups with almost regular involution. (Russian) 90f:20055
 Chernikov, N. S. Groups that are factorizable by permutable periodic subgroups without elements of identical prime orders. (Russian) 90h:20057
 Gupta, Narain On groups in which every element has finite order. 90d:20073
 Hall, J. I. Infinite alternating groups as finitary linear transformation groups. 90a:20079
 Khukhro, E. I. Nilpotent periodic groups with an almost regular automorphism of prime order. (Russian) 90h:20058
 Kuzennyi, N. F. (with Subbotin, I. Ya.) Groups with pronormal primary subgroups. 90g:20056
 Phillips, Richard E. The structure of groups of finitary transformations. 90a:20080
 Repin, N. N. Multilinear identities in Lie rings that are associated with periodic groups. 90h:20032
 — *see also* Adyan, S. I., 90f:20054
 Shunkov, V. P. Embedding theorems for groups with involutions and the characterization of Chernikov groups. 90g:20057
 — Groups with finite periodic part. 90g:20058
 Subbotin, I. Ya. *see* Kuzennyi, N. F., 90g:20056

Items with secondary classifications in 20F50

- Chanyshiev, A. D. Sandwiches in Lie algebras. (Russian) 90m:17018
 Curzio, Mario (with Franciosi, Silvana; de Giovanni, Francesco) On automorphisms fixing infinite subgroups of groups. 90k:20062
 Franciosi, Silvana *see* Curzio, Mario; et al., 90k:20062
 de Giovanni, Francesco *see* Curzio, Mario; et al., 90k:20062
 Ivanov, S. V. P. Hall's conjecture on the finiteness of verbal subgroups. (Russian) 90j:20061
 Johnson, David Lawrence (with Kim, A. C.) Free Fibonacci algebras. 90i:08008
 Kegel, O. H. Four lectures on Sylow theory in locally finite groups. 90c:20037
 Khukhro, E. I. Nilpotent p -groups and their automorphisms. (Russian) 90m:20024
 — A remark on periodic compact groups. 90m:22011
 Kim, A. C. *see* Johnson, David Lawrence, 90i:08008
 Kuzennyi, N. F. (with Semko, N. N.) The structure of periodic nonabelian meta-Hamiltonian groups with an elementary commutator subgroup of rank three. 90b:20030
 — *see also* Subbotin, I. Ya., 90c:20044
 Oshrokov, V. N. An embedding theorem for groups and its corollaries. 90g:20059
 Otal, Javier (with Peña, Juan Manuel) Groups with minimal conditions related to finiteness properties on conjugacy classes. 90i:20029
 Peña, Juan Manuel *see* Otal, Javier, 90i:20029
 Polovitskii, Ya. D. Locally finite groups with Chernikov conjugacy classes of infinite abelian subgroups. 90a:20073
 Schlichting, Günter On the periodicity of group operations. 90d:20008
 Semko, N. N. *see* Kuzennyi, N. F., 90b:20030
 Subbotin, I. Ya. (with Kuzennyi, N. F.) Groups with a transitivity condition. (Russian) 90c:20044
 Tuzov, A. N. Complementability of subgroups in Chernikov A -groups. (Russian) 90c:20069
 Zelmanov, E. I. Some problems in the theory of groups and Lie algebras. 90f:17024

20F60 Ordered groups [See mainly 06F15]

Items with secondary classifications in 20F60

- Darnel, Michael R. (with Glass, A. M. W.; Rhemtulla, Akbar H.) Groups in which every right order is two-sided. 90k:06027
 Glass, A. M. W. see Darnel, Michael R.; et al. 90k:06027
 Petrova, N. L. see Todorinov, S. A., 90d:06028
 Rhemtulla, Akbar H. see Darnel, Michael R.; et al. 90k:06027
 Todorinov, S. A. (with Petrova, N. L.) Directionally nonorderable groups. (Russian) 90d:06028

20F99 None of the above, but in this section

- Blyth, Russell D. Rewriting products of group elements. I. 90b:20033
 — Rewriting products of group elements. II. 90b:20034
 — (with Robinson, Derek J. S.) Recent progress on rewritability in groups. 90b:20035
 — (with Rhemtulla, Akbar H.) Rewritable products in FC-by-finite groups. 90d:20074
 Kim, Pan Soo (with Rhemtulla, Akbar H.) Permutable word products in groups. 90b:20059
 Li, Hong Xing (with Wang, Pei Zhuang) The power group. (Chinese. English summary) 90b:20060
 Maj, Mercedes Some remarks on groups with permutable subgroup products. 90b:20061
 Obratsov, V. N. An embedding theorem for groups and its corollaries. 90g:20059
 Rhemtulla, Akbar H. see Blyth, Russell D., 90d:20074 and Kim, Pan Soo, 90b:20059
 Robinson, Derek J. S. see Blyth, Russell D., 90b:20035
 Wang, Pei Zhuang see Li, Hong Xing, 90b:20060

Items with secondary classifications in 20F99

- Birget, Jean-Camille (with Rhodes, John) Group theory via global semigroup theory. 90a:20124
 Dhombres, Jean Some recent applications of functional equations. 90e:39015
 Dror Farjoun, Emmanuel (with Orr, K.; Shelah, Saharon) Bousfield localization as an algebraic closure of groups. 90j:55016
 Fraenkel, A. S. The use and usefulness of numeration systems. 90k:68057
 Myasnikov, A. G. (with Remeslennikov, V. N.) * Допустимые множества в теории групп. (Russian) [Admissible sets in group theory] 90j:03065
 Ofshanskii, A. Yu. Efficient embeddings of countable groups. (Russian) 90m:20032
 Orr, K. see Dror Farjoun, Emmanuel; et al. 90j:55016
 Remeslennikov, V. N. see Myasnikov, A. G., 90j:03065
 Rhodes, John see Birget, Jean-Camille, 90a:20124
 Shelah, Saharon see Dror Farjoun, Emmanuel; et al. 90j:55016
 Strambach, Karl Partitions of Lie groups and algebraic groups. 90a:22007
 Voss, Samuel M. Critical multi-operator groups. 90c:20036

20Gxx Linear algebraic groups (classical groups)

{For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 22E45, 22E46, 22E47, 22E50, 22E55.}

20G05 Representation theory

- Akin, Kaan (with Buchsbaum, David A.) Characteristic-free representation theory of the general linear group. II. Homological considerations. 90c:20037
 Andersen, Henning Haahr (with Kaneda, Masaharu) Loewy series of modules for the first Frobenius kernel in a reductive algebraic group. 90b:20062
 Bai, Yuan Hual Composition factors of sheaf cohomology groups on G/B . (Chinese. English summary) 90b:20036
 — (with Wang, Jian Pan; Wen, Ke Xin) Translation and cancellation of socle series patterns. 90a:20081
 — Composition factors with multiplicity 1 of sheaf cohomology groups on G/B . (Chinese) 90g:20060
 — The decomposition pattern and socle series of $H^0(\lambda)$ in A_2 nongeneric position. (Chinese) 90j:20082
 Broué, Michel (with Michel, Jean) Blocs et séries de Lusztig dans un groupe réductif fini. [Blocks and Lusztig series in a finite reductive group] 90b:20037
 Brylinski, Raneé Kathryn Stable calculus of the mixed tensor character. I. 90k:20067
 Buchsbaum, David A. Jacobi-Trudi and Giambelli identities in characteristic-free form. 90d:20075
 — see also Akin, Kaan, 90c:20037
 Cabanes, Marc Extension groups for modular Hecke algebras. 90b:20063
 Carter, R. W. The relation between irreducible characters and conjugacy classes in finite groups of Lie type. 90d:20076
 Curtis, Charles W. Representations of Hecke algebras. 90m:20047
 Doty, Stephen Character formulas and Frobenius subgroups of algebraic groups. 90i:20041
 — Filtrations of rational representations of reductive groups of semisimple rank 1. 90i:20042
 Douglass, J. Matthew Cells and the reflection representation of Weyl groups and Hecke algebras. 90g:20061
 Horvath, József Bruhat decomposition in unipotent actions. 90i:20043
 Humphreys, J. E. Generic Cartan invariants for Frobenius kernels and Chevalley groups. 90h:20064
 Kaneda, Masaharu Extensions of modules for infinitesimal algebraic groups. 90c:20049
 — see also Andersen, Henning Haahr, 90b:20062
 Kasai, Shin-ichi A classification of reductive prehomogeneous vector spaces with two irreducible components. I. 90c:20038
 — A classification of a certain class of reductive prehomogeneous vector spaces. 90b:20065
 — Universal transitivity of certain classes of reductive prehomogeneous vector spaces. 90i:20044

- Kempf, George R. The number of invariants. 90c:20050
 Littlemann, Peter Koregularé und äquidimensionale Darstellungen. (English summary) [Coregular and equidimensional representations] 90c:20039
 Lusztig, George On the representations of reductive groups with disconnected centre. 90j:20083
 — Cells in affine Weyl groups. IV. 90k:20068
 Michel, Jean see Broué, Michel, 90b:20037
 Mowbray, Miranda The submodule structure of characteristic p Verma modules for groups of type A_1 . 90j:20084
 Polo, Patrick Modules associés aux variétés de Schubert. (English summary) [Modules associated with Schubert varieties] 90f:20056
 Popov, V. L. Some applications of algebra of functions on G/U . 90m:20048
 Sawada, Hideki On a certain covariant representation functor and irreducible modules of Chevalley groups. 90j:20085
 Shinoda, Ken-ichi Introduction to the theory of representations of finite reductive groups. (Spanish) 90j:20086
 Soto-Andrade, Jorge Produits scalaires L^2 généralisés. [Generalized L^2 scalar products] 90j:20087
 Spaltenstein, N. Polynomials over local fields, nilpotent orbits and conjugacy classes in Weyl groups. 90b:20069
 Steinberg, Robert Tensor product theorems. 90d:20077
 Sullivan, John B. On the second socle level of induced modules for algebraic groups. 90j:20088
 Teranishi, Yasuo Universal induced characters and restriction rules for the classical groups. 90m:20049
 Testerman, Donna M. Irreducible subgroups of exceptional algebraic groups. 90a:20082
 — A note on composition factors of Weyl modules. 90a:20083
 Timoshia, A. S. Representations of zigzag network subgroups. 90i:20045
 Vavilov, N. A. The geometry of long root subgroups in Chevalley groups. 90d:20078
 Vella, David C. A cohomological characterization of parabolic subgroups of reductive algebraic groups. 90d:20079
 Wang, Jian Pan Partial orderings on affine Weyl groups. (Chinese. English summary) 90a:20064
 — On the cyclicity and cocyclicity of G -modules. 90c:20051
 — see also Bai, Yuan Hual; et al., 90a:20081
 Wen, Ke Xin The composition of intertwining homomorphisms. 90d:20080
 — see also Bai, Yuan Hual; et al., 90a:20081
 Yamane, Hiroyuki Irreducible projective modules of the Hecke algebras of a finite Coxeter group. 90k:20070
 Ye, Jia Chen Filtrations of principal indecomposable modules of Frobenius kernels of semisimple algebraic groups. (Chinese. English summary) 90g:20062
 — Some properties of the polynomials Q_{AC} . (Chinese. English summary) 90a:20085
 — Cartan invariants of finite groups of Lie type. 90a:20086
 — On the inverse Kazhdan-Lusztig polynomials Q_{AC} . (Chinese) 90k:20071

Items with secondary classifications in 20G05

- Akin, Kaan (with Buchsbaum, David A.) Representations, resolutions and intertwining numbers. 90i:13013
 — Resolutions of representations. 90c:17010
 Bhowle, Usha (with Ramanathan, Annamalai) Moduli of parabolic G -bundles on curves. 90h:14018
 (Billard, J.-R.) see Dixmier, Jacques, 90m:15047
 Brylinski, Raneé Kathryn Limits of weight spaces, Lusztig's q -analogs, and fiberings of adjoint orbits. 90g:17011
 Buchsbaum, David A. see Akin, Kaan, 90i:13013
 Cline, E. (with Parshall, B.; Scott, Leonard L.) Algebraic stratification in representation categories. 90d:18004
 — (with Parshall, B.; Scott, Leonard L.) Finite-dimensional algebras and highest weight categories. 90d:18005
 Daszkiewicz, Andrzej On the invariant ideals of the symmetric algebra $S(V \oplus \Lambda^2 V)$. 90k:22023
 Dixmier, Jacques Quelques aspects de la théorie des invariants. [Some aspects of invariant theory] 90m:15047
 Doty, Stephen The strong linkage principle. 90d:20081
 Flath, Daniel E. An analogue of the Weyl algebra. 90a:22012
 Ginzburg, V. A. Geometrical aspects of representation theory. 90c:22028
 Gow, R. Even unimodular lattices associated with the Weil representation of the finite symplectic group. 90f:20009
 Gurbanov, Zh. see Manturov, O. V., 90b:17007
 Gustafson, Robert A. Invariant theory and special functions. 90g:22029
 Helminck, A. G. Algebraic groups with a commuting pair of involutions and semisimple symmetric spaces. 90a:17011
 Howe, Roger E. The classical groups and invariants of binary forms. 90c:22022
 — Remarks on classical invariant theory. 90h:22015a
 — Erratum to: "Remarks on classical invariant theory". 90h:22015b
 James, Donald G. Representations of anisotropic unitary groups. II. 90k:11041
 — Representations of anisotropic classical groups. 90c:11055
 Jones, Lenny K. Centers of generic Hecke algebras. 90d:20030
 Kempf, George R. A remark on integral representations of $GL_2(n)$. 90d:20031
 King, Ronald Curtis S -functions and characters of Lie algebras and superalgebras. 90k:17014
 Kraft, Hanspeter (with Petrie, Ted; Randall, John D.) Quotient varieties. 90b:14057
 Kurano, Kazuhiko The first syzygies of determinantal ideals. 90h:14071
 Lawther, Ross Ian (with Saxl, Jan) On the actions of finite groups of Lie type on the cosets of subfield subgroups and their twisted analogues. 90c:20042
 Li, Xiao Yun² Barycentric coordinates and irreducible representations of the group SU_n . (Chinese. English summary) 90j:22015
 Lusztig, George Cuspidal local systems and graded Hecke algebras. I. 90c:22029
 — Representations of affine Hecke algebras. 90k:22028

- Manturov, O. V. (with Gurbanov, Zh.) A class of algebras with an irreducible group of automorphisms. (Russian. English summary) **90b:17007**
- Mathieu, Olivier Formules de caractères pour les algèbres de Kac-Moody générales. (English summary) [Character formulas for general Kac-Moody algebras] **90d:17024**
- Construction d'un groupe de Kac-Moody et applications. [Construction of a Kac-Moody group and applications] **90f:17012**
- Filtrations of B -modules. **90k:14056**
- Matsumura, Jun-ichi On the generalized exponents of classical Lie groups. **90b:22021**
- Muro, Masakazu A note on the holonomic system of invariant hyperfunctions on a certain prehomogeneous vector space. **90i:22027**
- Pantoja, José (with Soto-Andrade, Jorge) Grupos de Grassmann-Heisenberg et représentations de Weil généralisées pour SL_n , n pair. (English summary) [Grassmann-Heisenberg groups and generalized Weil representations for SL_n , n even] **90i:22031**
- Panyushev, D. I. Complexity and rank of homogeneous spaces and the co-isotropy representation. **90j:14072**
- Parshall, B. see Cline, E.; et al., **90d:18004** and **90d:18005**
- Petrie, Ted see Kraft, Hanspeter; et al., **90b:14057**
- Ramanathan, Annamalai see Bhoole, Usha, **90b:14018**
- Randall, John D. see Kraft, Hanspeter; et al., **90b:14057**
- Richardson, R. W. Normality of G -stable subvarieties of a semisimple Lie algebra. **90d:14052**
- Irreducible components of the nilcone. **90g:14031**
- Saxl, Jan see Lawther, Ross Ian, **90e:20042**
- Scott, Leonard L. see Cline, E.; et al., **90d:18004** and **90d:18005**
- Shi, Jian Yi Some recent developments on the cells of affine Weyl groups. **90a:20101**
- Soergel, W. n -cohomology of simple highest weight modules on walls and purity. **90m:22037**
- Universelle versus relative Einhüllende: Eine geometrische Untersuchung von Quotienten von universellen Einhüllenden halbeinfacher Lie-Algebren. [Universal versus relative enveloping algebras: a geometric investigation of quotients of universal enveloping algebras of semisimple Lie algebras] **90k:17034**
- Soto-Andrade, Jorge see Pantoja, José, **90i:22031**
- Stembridge, John R. A combinatorial theory for rational actions of GL_n . (see **90a:14002**)
- Strichartz, Robert S. Linear algebra of curvature tensors and their covariant derivatives. **90c:53048**
- Tanigaki, Toshiyuki Representations of semisimple Lie groups and D -modules. (Japanese) **90j:22017**
- Valklein, Helmut The 1-cohomology of the adjoint module of a Chevalley group. **90b:20038**
- Wehlan, David L. Some recent results on the Popov conjecture. **90m:14044**
- Weyman, Jerzy Pieri's formulas for classical groups. **90d:17008**
- Wong, W. J. Powers of a prime dividing binomial coefficients. **90d:05011**
- Zaleskii, A. E. Eigenvalues of matrices of complex representations of finite groups of Lie type. **90d:20084**
- Items listed otherwise than by author
- Orbites unipotentes et représentations ★ Orbites unipotentes et représentations. I. [Unipotent orbits and representations. I] **90g:20003**
- Unipotent orbits and représentations ★ Orbites unipotentes et représentations. I. [Unipotent orbits and representations. I] **90g:20003**
- ## 20G10 Cohomology theory
- Betley, Stanislaw Vanishing theorems for homology of $GL_n R$. **90j:20089**
- Doty, Stephen The strong linkage principle. **90d:20081**
- Friedlander, Eric M. Erratum: "Multiplicative stability for the cohomology of finite Chevalley groups" [Comment. Math. Helv. 63 (1988), no. 1, 108–113; MR 89b:20092]. **90c:20052**
- Kroll, Ove The cohomology of the finite general linear group. **90b:20066**
- Items with secondary classifications in 20G10
- Arieltaz, Dominique Torsion classes in the cohomology of congruence subgroups. **90j:20097**
- Bai, Yuan Hui (with Wang, Jian Pan; Wen, Ke Xin) Translation and cancellation of socle series patterns. **90a:20081**
- Chernousov, V. I. The Hasse principle for groups of type E_6 . **90m:11055**
- Doty, Stephen Filtrations of rational representations of reductive groups of semisimple rank 1. **90i:20042**
- Hilla, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] **90e:22019**
- Kaneda, Masaharu Extensions of modules for infinitesimal algebraic groups. **90c:20049**
- Levine, Harold I. A lower bound for the topological complexity of $Poly(D, n)$. **90i:68050**
- Ronan, M. A. Duality for presheaves on chamber systems, and a related chain complex. **90c:17014**
- Vella, David C. A cohomological characterization of parabolic subgroups of reductive algebraic groups. **90d:20079**
- Wang, Jian Pan Inverse limits of affine group schemes. **90g:14029**
- see also Bai, Yuan Hui; et al., **90a:20081**
- Wen, Ke Xin see Bai, Yuan Hui; et al., **90a:20081**
- ## 20G15 Linear algebraic groups over arbitrary fields
- Ambrosiewicz, Jan Products of sets in linear groups. **90m:20050**
- Arakelyan, F. O. Distribution of subgroups in the general linear group over the quotient field of a noncommutative domain of principal ideals. (Russian) (see **90b:20005**)
- Borovik, A. V. Finite subgroups of simple algebraic groups. (Russian) **90m:20051**
- Chen, Zhi Jie A classification of irreducible prehomogeneous vector spaces over an algebraically closed field of characteristic p . II. (Chinese) **90g:20063**
- Cheng, Chun Hu Classical groups and generalized simple groups of Lie type. **90f:20057**
- Corredor, Luis Jaime Bad groups of finite Morley rank. **90k:20074**
- Deković, Dragomir Z. An elementary proof of the structure theorem for connected solvable affine algebraic groups. **90a:20087**
- Doty, Stephen Submodules of symmetric powers of the natural module for GL_n . **90f:20058**
- Helmink, A. G. On the orbits of symmetric spaces under the action of parabolic subgroups. **90e:20059**
- Horvath, Jozsef A dimension theorem for vectors fixed by unipotent groups. **90k:20072**
- Kariyama, Kazutoshi On conjugacy classes of maximal tori in classical groups. **90j:20090**
- Korobov, A. A. Criteria for the existence of periodic and solvable complements of normal subgroups in linear algebraic groups. (Russian) **90m:20052**
- Laschinger, Bertold Automorphismengruppen freier Moduln von unendlichem Rang. (English summary) [Automorphism groups of free modules of infinite rank] **90h:20067**
- Li, Shang Zhi Overgroups of certain subgroups in the classical groups over division rings. **90c:20053**
- Irreducible subgroups of $SL(n, K)$ generated by root subgroups. **90h:20068**
- Nesin, Ali Nonsolvable groups of Morley rank 3. **90k:20073**
- Parshall, B. Finite-dimensional algebras and algebraic groups. **90j:20091**
- Seitz, Gary M. Maximal subgroups of exceptional groups. **90c:20054**
- Sysak, Ya. P. Products of almost abelian groups. (Russian) **90c:20055**
- Testerman, Donna M. A construction of certain maximal subgroups of the algebraic groups E_6 and F_4 . **90d:20082**
- Vavilov, N. A. Subgroups of the special linear group which contain the group of diagonal matrices. IV. **90a:20088**
- Root semisimple elements and triples of root unipotent subgroups in Chevalley groups. (Russian) **90i:20046**
- The relative arrangement of long and short root subgroups in a Chevalley group. **90c:20075**
- Videla, Carlos R. On the Mal'cev correspondence. **90i:20047**
- Valklein, Helmut The 1-cohomology of the adjoint module of a Chevalley group. **90b:20038**
- Items with secondary classifications in 20G15
- Borovik, M. V. Abstract simplicity of groups of type D_n over number fields. **90b:11036**
- Brown, Kenneth S. ★ Buildings. **90c:20001**
- Carter, R. W. ★ Simple groups of Lie type. **90g:20001**
- Chernousov, V. I. Groups of rational points of algebraic groups over algebraically nonclosed fields. (Russian) **90k:20077**
- Cline, E. (with Parshall, B.; Scott, Leonard L.) Duality in highest weight categories. **90j:17014**
- (Dieudonné, Jean) see Hahn, Alexander J., **90i:20002**
- Grundhöfer, Theo (with Zassenhaus, H.) A criterion for infinite non-Dickson nearfields of dimension two. **90c:12023**
- Hahn, Alexander J. (with O'Meara, O. Timothy) ★ The classical groups and K -theory. **90c:20002**
- Lakshmibai, V. (with Weyman, Jerzy) Multiplicities of points on a Schubert variety in a minuscule G/P . (French summary) **90a:14073**
- Monastyrnyi, A. P. (with Yanchevskii, V. I.) On the Whitehead groups and the Kneser-Tits conjecture for spinor groups. **90i:11040**
- O'Meara, O. Timothy see Hahn, Alexander J., **90i:20002**
- Parshall, B. see Cline, E.; et al., **90j:17014**
- Revoij, Philippe Formes trilineaires alternées de rang 7. (English summary) [Alternating trilinear forms of rank 7] **90c:15010**
- Richardson, R. W. Irreducible components of the nilcone. **90g:14031**
- Sawada, Hideki On a certain covariant representation functor and irreducible modules of Chevalley groups. **90j:20085**
- Scott, Leonard L. see Cline, E.; et al., **90j:17014**
- Weyman, Jerzy see Lakshmibai, V., **90a:14073**
- Yanchevskii, V. I. see Monastyrnyi, A. P., **90i:11040**
- Zassenhaus, H. see Grundhöfer, Theo, **90c:12023**
- ## 20G20 Linear algebraic groups over the reals, the complexes, the quaternions
- Cohen, Arjeh M. (with Griess, Robert L., Jr.) On finite simple subgroups of the complex Lie group of type E_6 . **90a:20089**
- Ellers, Erich W. (with Malzan, Jerry) Transvections as generators of the special linear group over the quaternions. **90g:20064**
- Griess, Robert L., Jr. see Cohen, Arjeh M., **90a:20089**
- Hanlon, Phil (with Wales, David) Computing the discriminants of Brauer's centralizer algebras. **90k:20076**
- Korlyukov, A. V. Finite linear groups that are generated by quadratic elements of order 4 and 3. (Russian) **90i:20048**
- Malzan, Jerry see Ellers, Erich W., **90g:20064**
- Scott, Leonard L. Derived categories and algebraic groups. **90f:20060**
- Wales, David see Hanlon, Phil, **90k:20076**
- Xi, Nan Hua Induced cells. **90d:20083**
- Zaleskii, A. E. Eigenvalues of matrices of finite linear groups and representation theory. (Russian) **90j:20092**
- Items with secondary classifications in 20G20
- Aslaksen, Helmer Laws of trigonometry on $SU(3)$. **90d:53047**
- Beukers, F. (with Heckman, Gert) Monodromy for the hypergeometric function ${}_2F_1$. **90f:11034**
- Damphousse, Pierre The arithmetic of powers and roots in $GL_2(C)$ and $SL_2(C)$. **90j:15034**
- Hauser, H. (with Müller, Gerd) Algebraic singularities have maximal reductive automorphism groups. **90c:32041**
- Heckman, Gert see Beukers, F., **90f:11034**
- Müller, Gerd see Hauser, H., **90c:32041**
- Panyushev, D. I. Complexity and rank of homogeneous spaces and the co-isotropy representation. **90j:14072**
- Pasini, Antonio On a theorem by Aschbacher. **90b:51007**
- Pillay, A. An application of model theory to real and p -adic algebraic groups. **90m:03061**

Zieschang, Paul-Hermann The nonexistence of certain geometries of type C_3 . 90b:51008

20G25 Linear algebraic groups over local fields and their integers

Grundhöfer, Theo Sharply transitive linear groups and nearfields over p -adic fields.

90b:20039

Li, Fu An The local behavior of (ρ, α, σ) systems. (Chinese) (Not in MR)

Mason, A. W. On GL_2 of a local ring in which 2 is not a unit. II. 90a:20090

Zhang, Yong Zheng Automorphisms of O_2^* over commutative semilocal rings. (Chinese) 90f:20061

— Two-dimensional unitary groups with nonzero Witt index over commutative semilocal rings. (Chinese. English summary) 90b:20069

Items with secondary classifications in 20G25

Corwin, Lawrence Representations of reductive p -adic groups: a survey. 90i:22028

(Ritter, Jürgen) *see* Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

Salto, Hiroshi¹ On a Hasse principle for σ -conjugacy. 90m:22042

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Augsburg *★* Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

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Representation Theory and Number Theory in Connection with the Local Langlands Conjecture *★* Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

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Representation theory and number theory in connection with the local Langlands conjecture *★* Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

20G30 Linear algebraic groups over global fields and their integers

Arregi, Jesús María *see* Vera López, Antonio, 90k:20078

Chernousov, V. I. Groups of rational points of algebraic groups over algebraically nonclosed fields. (Russian) 90k:20077

— Projective simplicity of some groups of rational points over algebraic number fields. 90g:20065

Hahn, Alexander J. The finite presentability of linear groups. 90f:20062

Tomanov, G. M. Congruence subgroup problem for groups of type G_2 . 90i:20049

Vera López, Antonio (with Arregi, Jesús María) Classes de conjugaison dans les p -sous-groupes de Sylow de $GL(n, q)$. (English summary) [Conjugacy classes in Sylow p -subgroups of $GL(n, q)$] 90k:20078

Items with secondary classifications in 20G30

Fine, Benjamin *★* Algebraic theory of the Bianchi groups. 90b:20002

Salto, Hiroshi¹ On a Hasse principle for σ -conjugacy. 90m:22042

Tomanov, G. M. On the congruence-subgroup problem for some anisotropic algebraic groups over number fields. 90m:11054

Voskresenskii, V. E. Maximal tori without affect in semisimple algebraic groups. (Russian) 90a:11046

20G35 Linear algebraic groups over adèles and other rings and schemes

Abe, Eichi (with Hurley, James F.) Centers of Chevalley groups over commutative rings. 90c:20040

Feng, Hong Automorphisms of $O_2^{(2)}$ over local rings. (Chinese. English summary) 90g:20066

Huo, Yuan Ji *see* Zou, Li Guo, 90g:20068

Hurley, James F. *see* Abe, Eichi, 90c:20040

Li, Fu An The question of normal subgroups and congruence subgroups of classical groups. (Chinese. English summary) 90a:20091

Nesterenko, Yu. P. (with Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's K -theory. 90a:20092

Panin, I. A. Stabilization for orthogonal and symplectic algebraic K -theories. (Russian) 90g:20067

Petechuk, V. M. Homomorphisms of linear groups over rings. 90f:20063

Plotkin, E. B. *see* Varilov, N. A.; et al., 90j:20093

Ren, Hong Shuo (with Wan, Zhe Xian; Wu, Xiao Long) Isomorphisms of linear groups over skew fields. 90c:20056

Stepanov, A. V. *see* Varilov, N. A.; et al., 90j:20093

Suslin, A. A. *see* Nesterenko, Yu. P., 90a:20092

Vaserstein, L. N. Normal subgroups of classical groups over rings and gauge groups. 90c:20041

— Normal subgroups of symplectic groups over rings. 90f:20064

Varilov, N. A. Subgroups of the general linear group over a Dedekind ring of arithmetic type. (Russian) 90a:20093

— Linear groups that are generated by one-parameter groups of one-dimensional transformations. 90c:20057

— (with Plotkin, E. B.; Stepanov, A. V.) Calculations in Chevalley groups over commutative rings. 90j:20093

Wan, Zhe Xian *see* Ren, Hong Shuo; et al., 90c:20056

Wu, Xiao Long *see* Ren, Hong Shuo; et al., 90c:20056

Zhang, Yong Zheng Automorphisms of $PO_2^*(V)$ over decomposable ϕ -surjective rings. (Chinese. English summary) 90c:20058

— Automorphisms of $G_n(R)$ over a class of rings. (Chinese) 90j:20094

Zou, Li Guo (with Huo, Yuan Ji) Expressing simi symplectic transvections as products of symplectic transvections. (Chinese. English summary) 90g:20068

Items with secondary classifications in 20G35

Li, Fu An (with Li, Zun Xian) The isomorphisms of GL_3 over commutative rings. 90g:20076

— (with Ren, Hong Shuo) The automorphisms of two-dimensional linear groups over commutative rings. 90c:20043

— The structure of orthogonal groups over arbitrary commutative rings. 90k:20084

Li, Zun Xian *see* Li, Fu An, 90g:20076

Mincher, Kh. P. Strong approximation for varieties over an algebraic number field. (Russian. English summary) 90a:11065

Ren, Hong Shuo *see* Li, Fu An, 90c:20043

Terasama, Tomohide Constructible sheaves associated to Whittaker functions. 90b:11121

Tomanov, G. M. On the congruence-subgroup problem for some anisotropic algebraic groups over number fields. 90m:11054

20G40 Linear algebraic groups over finite fields

Ch'en, Yung Ch'iu *see* Chu, Hua; et al., 90b:20040

Chu, Hua (with Kang, Ming Chang; Ch'en, Yung Ch'iu) The invariants of projective linear group actions. 90b:20040

Fong, Paul (with Srinivasan, Bhama) The blocks of finite classical groups. 90f:20065

Kang, Ming Chang *see* Chu, Hua; et al., 90b:20040

Lawther, Ross Ian (with Saxl, Jan) On the actions of finite groups of Lie type on the cosets of subfield subgroups and their twisted analogues. 90c:20042

Phạm Việt Hùng A lower bound for the order of maximal commutative p -subgroups of the group $GL(n, F_q)$. (Russian. English summary) 90f:20066

Roloff, Hartmut Haltsche Untergruppen endlicher linearer Gruppen. [Hall subgroups of finite linear groups] (Not in MR)

Saxl, Jan *see* Lawther, Ross Ian, 90c:20042

Seitz, Gary M. Cross-characteristic embeddings of finite groups of Lie type. 90k:20079

Srinivasan, Bhama *see* Fong, Paul, 90f:20065

Waterhouse, William C. Two generators for the general linear groups over finite fields. 90g:20069

Zaleskii, A. E. Eigenvalues of matrices of complex representations of finite groups of Lie type. 90d:20084

Items with secondary classifications in 20G40

Bagchi, Bhaskar (with Narasimha Sastry, N. S.) Intersection pattern of the classical ovoids in symplectic 3-space of even order. 90k:51015

Bannai, Eichi (with Song, Sung-Yell) The character tables of Paige's simple Moufang loops and their relationship to the character tables of $PSL(2, q)$. 90b:20057

Campbell, C. M. (with Robertson, E. F.; Williams, P. D.) On presentations of $PSL(2, p^n)$. 90j:20066

Carter, R. W. *★* Simple groups of Lie type. 90g:20001

Feshbach, Mark (with Priddy, Stewart) Stable splittings associated with Chevalley groups. I, II. 90d:55026

Fleischmann, Peter The complexities and rank varieties of the simple modules of $({}^2A_2)(q^2)$ in the natural characteristic. 90d:20023

Jones, Lenny K. Centers of generic Hecke algebras. 90d:20030

Liebeck, Martin W. (with Praeger, Cheryl E.; Saxl, Jan) The maximal factorizations of the finite simple groups and their automorphism groups. 90k:20048

Lozanov, Chavdar *see* Russeva, Assia P., 90g:51017

Lusztig, George On the representations of reductive groups with disconnected centre. 90j:20083

Narasimha Sastry, N. S. *see* Bagchi, Bhaskar, 90k:51015

Praeger, Cheryl E. *see* Liebeck, Martin W.; et al., 90k:20048

Priddy, Stewart *see* Feshbach, Mark, 90d:55026

(Ritter, Jürgen) *see* Representation theory and number theory in connection with the local Langlands conjecture. 90m:11193

Robertson, E. F. (with Williams, P. D.) Efficient presentations of the groups $PSL(2, 2p)$ and $SL(2, 2p)$. 90a:20065

— *see also* Campbell, C. M.; et al., 90j:20066

Russeva, Assia P. (with Lozanov, Chavdar) On the geometry of a cyclic subgroup of the Suzuki group $Sz(8)$. (Bulgarian summary) 90g:51017

Saxl, Jan *see* Liebeck, Martin W.; et al., 90k:20048

Seitz, Gary M. Maximal subgroups of exceptional groups. 90c:20054

Shamash, Josephine Brauer trees for blocks of cyclic defect in the groups $G_2(q)$ for primes dividing $q^2 \pm q + 1$. 90m:20016

Shi, Wu Jie A new characterization of some simple groups of Lie type. 90c:20022

Sin, Peter The Green ring and modular representations of finite groups of Lie type. 90d:20028

Song, Sung-Yell *see* Bannai, Eichi, 90b:20057

Sullivan, John B. On the second socle level of induced modules for algebraic groups. 90j:20088

Timmesfeld, F. G. Classical locally finite Tits chamber systems of rank 3. 90i:20038

Williams, P. D. *see* Robertson, E. F., 90a:20065 and Campbell, C. M.; et al., 90j:20066

Ye, Jia Chen Cartan invariants of finite groups of Lie type. I. 90j:20022

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20G45 Applications to physics; explicit representations

Items with secondary classifications in 20G45

- Aroyo, M. I. (with Kotz, J. N.; Dirl, R.; Kasperkovitz, P.; Davies, B. L.) The auxiliary group approach to the reduction of multiple Kronecker products and to chain-adapted reducing matrices. 90j:20102
 — see also Kotz, J. N.; et al., 90j:22027
 Birman, Joseph L. See Goshen, Shmuel Y., (90i:81003)
 Chen, Jin Quan (with Wang, Pei Ning; Lü, Zi Min; Wu, Xiong Biao) ★ Tables of the Clebsch-Gordan, Racah and subduction coefficients of $SU(n)$ groups. 90j:22025
 Davies, B. L. (with Dirl, R.) Various classification schemes for irreducible space group representations. 90j:20103
 — see also Aroyo, M. I.; et al., 90j:20102 and Dirl, R., 90j:20106
 Dirl, R. (with Davies, B. L.) Physical applications of compatibility relations for space group Clebsch-Gordan coefficients. 90j:20106
 — see also Aroyo, M. I.; et al., 90j:20102; Davies, B. L., 90j:20103 and Kotz, J. N.; et al., 90j:22027
 Glockner, Peter (with von Waldenfeld, Wilhelm) The relations of the noncommutative coefficient algebra of the unitary group. 90m:16006
 Goodman, Rne (with Wallach, Nolan R.) Higher-order Sugawara operators for affine Lie algebras. 90i:17030
 Goshen, Shmuel Y. (with Birman, Joseph L.) Tensorial properties distinguishing icosahedral symmetry from cubic or isotropic $SO(3)$ symmetry. (see 90i:81003)
 Kasperkovitz, P. see Aroyo, M. I.; et al., 90j:20102 and Kotz, J. N.; et al., 90j:22027
 Kotz, J. N. (with Peev, M. K.; Aroyo, M. I.; Dirl, R.; Kasperkovitz, P.) Auxiliary group approach for group-subgroup related transformation matrices. 90j:22027
 — see also Aroyo, M. I.; et al., 90j:20102
 Levitov, L. S. Icosahedral quasicrystals with continuous phasons. (French summary) 90k:82077
 Li, Zi Min see Chen, Jin Quan; et al., 90j:22025
 Pantoja, José (with Soto-Andrade, Jorge) Groupes de Grassmann-Heisenberg et représentations de Weil généralisées pour SL_n , n pair. (English summary) [Grassmann-Heisenberg groups and generalized Weil representations for SL_n , n even] 90i:22031
 Peev, M. K. see Kotz, J. N.; et al., 90j:22027
 Soto-Andrade, Jorge see Pantoja, José, 90i:22031
 von Waldenfeld, Wilhelm see Glockner, Peter, 90m:16006
 Wallach, Nolan R. see Goodman, Rne, 90i:17030
 Wang, Pei Ning see Chen, Jin Quan; et al., 90j:22025
 Wu, Xiong Biao see Chen, Jin Quan; et al., 90j:22025

20G99 None of the above, but in this section

- Augustine, M. K. (with Putcha, Mohan S.) Maps into Dynkin diagrams arising from regular monoids. 90j:20095
 Putcha, Mohan S. Linear algebraic monoids and G/H embeddings. 90j:20096
 — see also Augustine, M. K., 90j:20095
 Items with secondary classifications in 20G99
 Deodhar, Vinay V. An extension of Kazhdan-Lusztig theory. 90i:17023
 Joshua, Roy Equivariant intersection cohomology—a survey. 90f:55012
 Li, Hong Xing (with Wang, Pei Zhuang) The power group. (Chinese. English summary) 90h:20060
 Magid, Andy R. Equivariant completions of affine varieties with group action. 90d:14051
 Nesin, Ali Solvable groups of finite Morley rank. 90d:03068
 Putcha, Mohan S. ★ Linear algebraic monoids. 90a:20003
 Renner, Lex E. Classification of semisimple varieties. 90k:14057
 — Completely regular algebraic monoids. 90j:20093
 Segal, Dan On the automorphism groups of certain Lie algebras. 90i:17022
 Strambach, Karl Partitions of Lie groups and algebraic groups. 90a:22007
 Takeuchi, Mitsuhiro Quantum orthogonal and symplectic groups and their embedding into quantum GL. 90j:16024
 Vonesse, Nikolaus Actions of linearly reductive groups on affine PI algebras. 90i:16014
 Wang, Pei Zhuang see Li, Hong Xing, 90h:20060

20Hxx Other groups of matrices

20H05 Unimodular groups, congruence subgroups

[see also 11F06, 19B37, 22E40, 51F20]

- Arieltax, Dominique Torsion classes in the cohomology of congruence subgroups. 90j:20097
 Li, Fu An (with Ren, Hong Shao) The automorphisms of two-dimensional linear groups over commutative rings. 90c:20043
 Mason, A. W. Nonstandard, normal subgroups and nonnormal, standard subgroups of the modular group. 90f:20067
 Ren, Hong Shao see Li, Fu An, 90c:20043

Items with secondary classifications in 20H05

- Beck, István Partial orders and the modular group. 90f:06002
 Harvey, W. J. Modular groups and representation spaces. 90a:14037
 Laschinger, Bertold Automorphismengruppen freier Moduln von unendlichem Rang. (English summary) [Automorphism groups of free modules of infinite rank] 90h:20067
 Li, Fu An The question of normal subgroups and congruence subgroups of classical groups. (Chinese. English summary) 90a:20091
 Li, Shang Zhi Irreducible subgroups of $SL(n, K)$ generated by root subgroups. 90h:20068

- Mushtaq, Q. Reduced indefinite binary quadratic forms and orbits of the modular group. (Serbo-Croatian summary) 90d:11044
 Newman, Morris An asymptotic result for subgroups of $SL(2, \mathbb{Z})$ of level 2. 90a:11052
 Takagi, Toshikazu Classification of normal congruence subgroups of $G(\sqrt{q})$. I. 90k:11046
 — Classification of normal congruence subgroups of $G(\sqrt{q})$. II. 90k:11047

20H10 Fuchsian groups and their generalizations

[see also 11F06, 22E40, 30F35, 32Nxx]

- Bers, Lipman Finitely generated Kleinian groups. An introduction. 90i:20050
 Bujalance, E. (with Martínez, Ernesto) A remark on NEC groups representing surfaces with boundary. 90a:20094
 — (with Gromadzki, Grzegorz) On nilpotent groups of automorphisms of Klein surfaces. 90e:20044
 Bujalance, J. A. Orders of the automorphisms of bordered Klein surfaces of topological genus 2. (Spanish. English summary) 90j:20098
 Gromadzki, Grzegorz (with MacLachlan, C.) Supersoluble groups of automorphisms of compact Riemann surfaces. 90k:20080
 — see also Bujalance, E., 90c:20044
 Kulkarni, Ravi S. Geometry of Neumann subgroups. 90j:20099
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- Kosman, E. G. Normal structure of Sylow p -groups of the restricted linear group. (Russian) 90c:20086
 Levin, Frank (with Rosenberger, Gerhard) Generators of finite projective linear groups. II. 90m:20058
 Mushtaq, Q. Coset diagrams for an action of the extended modular group on the projective line over a finite field. 90c:20113
 — The extended modular group acting on the projective line over a Galois field. 90c:20114
 Rosenberger, Gerhard see Levin, Frank, 90m:20058
 Roszkowska, Ewa On the property W' for the group $UT(n, F)$. 90c:20075

Items with secondary classifications in 20H30

- Krieg, Aloys Hecke algebras. 90m:16024
Pham Viêt Hùng A lower bound for the order of maximal commutative p -subgroups of the group $GL(n, F_q)$. (Russian. English summary) 90f:20066
Wei, Wan Di The properties of matrices $\alpha I + \beta J$. (Chinese. English summary) 90a:05028

20H99 None of the above, but in this section

Items with secondary classifications in 20H99

- Bergan, Peter (with Garbe, D.) Nonorientable and orientable regular maps. 90k:57003
Garbe, D. see Bergan, Peter, 90k:57003
Teran, Hiroaki The Jacobians and the discriminants of finite reflection groups. 90m:32028

20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

- Berrick, A. J. Universal groups, binate groups and acyclicity. 90c:20063
Betley, Stanisław Splitting theorem for homology of $GL(R)$. 90d:20089
Bieri, Robert (with Renz, Burkhardt) Valuations on free resolutions and higher geometric invariants of groups. 90a:20106
Conduché, Daniel (with Ellis, G. J.) Quelques propriétés homologiques des modules précoisés. [Some homological properties of precosed modules] 90t:20053
Ellis, G. J. (with Rodríguez-Fernández, C.) An exterior product for the homology of groups with integral coefficients modulo p . (French summary) 90k:20087
— see also Conduché, Daniel, 90t:20053
Greenberg, Peter Homology of some groups of p -homeomorphisms of the line. 90t:20054
Hannebauer, Torsten Relation modules of amalgamated free products and HNN extensions. 90m:20059
Horadam, K. J. The cohomology ring of a combinatorially aspherical group. 90j:20115
Huebschmann, Johannes Perturbation theory and free resolutions for nilpotent groups of class 2. 90m:20060
— Cohomology of nilpotent groups of class 2. 90m:20061
Kim, In Su Remarks on D^p -groups and spectral sequences. 90k:20088
Kropholler, P. H. (with Roller, M. A.) Splittings of Poincaré duality groups. II. 90d:20090a
— (with Roller, M. A.) Splittings of Poincaré duality groups. III. 90d:20090b
Kuz'min, Yu. V. Some properties of free abelian extensions. (Russian) 90g:20077
Lambe, Larry A. Algorithms for computing the cohomology of nilpotent groups. 90b:20044
Renz, Burkhardt see Bieri, Robert, 90a:20106
Robinson, Derek J. S. Cohomology in infinite group theory. 90b:20045
Rodríguez-Fernández, C. see Ellis, G. J., 90k:20087
Roller, M. A. see Kropholler, P. H., 90d:20090a and 90d:20090b
Stöhr, Ralph A generalized Hopf formula for higher homology groups. 90d:20091

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- Adem, Alejandro Cohomological restrictions on finite group actions. 90d:57042
Akin, Kálmán (with Buchsbaum, David A.) Characteristic-free representation theory of the general linear group. II. Homological considerations. 90c:20037
Assadi, Amir H. Varieties in finite transformation groups. 90c:57066
Barge, Jean Cohomologie des groupes et corps d'invariants multiplicatifs. [Group cohomology and fields of multiplicative invariants] 90c:12006
Bergman, George M. Embedding arbitrary algebras in groups. 90a:20049
Berrick, A. J. Remarks on the structure of acyclic groups. 90m:20010
Betley, Stanisław Vanishing theorems for homology of $GL_n R$. 90j:20089
Brown, K. A. (with Howie, James; Lorenz, Martin) Induced resolutions and Grothendieck groups of polycyclic-by-finite groups. 90d:20015
Brown, Ronald (with Golasinski, Marek) A model structure for the homotopy theory of crossed complexes. (French summary) 90f:18012
Brylinski, Jean-Luc Some examples of Hochschild and cyclic homology. 90c:22018
Buchsbaum, David A. see Akin, Kálmán, 90c:20037
Collins, Donald J. Cohomological dimension and symmetric automorphisms of a free group. 90c:20035
Curzio, Mario (with Robinson, Derek J. S.; Smith, Howard; Wiegold, James) Some remarks on central automorphisms of hypercentral groups. 90h:20053
Ellis, G. J. Higher-dimensional crossed modules of algebras. 90a:18010
Golasinski, Marek see Brown, Ronald, 90f:18012
Guin, Daniel Homologie du groupe linéaire et K -théorie de Milnor des anneaux. [Homology of linear groups and Milnor K -theory of rings] 90g:11051
Hillman, J. A. Two-knot groups with torsion free abelian normal subgroups of rank two. 90a:57033
Howie, James see Brown, K. A.; et al., 90d:20015
Jeandupeux, Denis Sur la cohomologie entière du groupe linéaire général et du groupe linéaire spécial sur un corps fini. (English summary) [On the integral cohomology of the general linear and special linear groups over a finite field] 90t:20055
Lorenz, Martin see Brown, K. A.; et al., 90d:20015
Renz, Burkhardt Geometric invariants and HNN-extensions. 90a:20075
Robinson, Derek J. S. see Curzio, Mario; et al., 90h:20053
Smith, Howard see Curzio, Mario; et al., 90h:20053
Stöhr, Ralph On elements of order four in certain free central extensions of groups. 90c:20038
Wiegold, James see Curzio, Mario; et al., 90h:20053
Zerck, Rainer On the homology of the higher relation modules. 90f:20049

20J06 Cohomology of finite groups

- Adem, Alejandro Cohomological exponents of ZG -lattices. 90b:20046

Duflo, Jeanne A Hopf algebra associated to the cohomology of the symmetric groups. 90a:20107

Evens, Leonard (with Feshbach, Mark) Carlson's theorem on varieties and transfer. 90a:20108

— (with Priddy, Stewart) The ring of universally stable elements. 90k:20089

Feshbach, Mark see Evens, Leonard, 90a:20108

Greenlees, J. P. C. Topological methods in equivariant cohomology. 90c:20064

Holt, Derek F. Computation of cohomology groups and enumeration of finite perfect groups. (see 90m:00036)

Jeandupeux, Denis Sur la cohomologie entière du groupe linéaire général et du groupe linéaire spécial sur un corps fini. (English summary) [On the integral cohomology of the general linear and special linear groups over a finite field] 90t:20055

Kawai, Hiroaki On module varieties and quotient groups. 90d:20092

Nguyễn Xuân Tuyền Mod 2 cohomology algebras of the alternating groups. (Russian. English and Georgian summaries) 90a:20109

Niwasaki, Takashi On Carlson's conjecture for cohomology rings of modules. 90c:20046

Pham Viêt Hùng The algebra $H^*(GL(4, Z_2); Z_2)$. 90a:20110

Priddy, Stewart see Evens, Leonard, 90k:20089

Segura, Isabel On semiperiodicity for finite groups. 90b:20076

Items with secondary classifications in 20J06

Andrews, Robert C. Carlson varieties and Chouinard's theorem. 90a:20020

Friedlander, Eric M. Erratum: "Multiplicative stability for the cohomology of finite Chevalley groups" [Comment. Math. Helv. 63 (1988), no. 1, 108–113; MR 89b:20092]. 90c:20052

Harris, John C. A stable decomposition of BSD_{16} . 90c:55031

Henn, Hans-Werner Classifying spaces with injective mod p cohomology. 90d:55028

Huebschmann, Johannes Change of rings and characteristic classes. 90h:18015

Lim, Pyung-Ki Stable splittings of BG for groups with periodic cohomology and universal stable elements. 90j:55024

Tezuka, Michishige (with Yagita, N.) Cohomology of finite groups and Brown-Peterson cohomology. 90t:55011

Valklein, Helmut The 1-cohomology of the adjoint module of a Chevalley group. 90b:20038

Yagita, N. see Tezuka, Michishige, 90t:55011

20J10 Groups arising as cohomology groups

Items with secondary classifications in 20J10

Zerck, Rainer On the homology of the higher relation modules. 90f:20049

20J15 Category of groups

Dăianu, Dan On the completeness of group a -category. 90c:20047

Items with secondary classifications in 20J15

Bergman, George M. Embedding arbitrary algebras in groups. 90a:20049

Dror Farjoun, Emmanuel (with Orr, K.; Shelah, Saharon) Bousfield localization as an algebraic closure of groups. 90j:55016

Orr, K. see Dror Farjoun, Emmanuel; et al., 90j:55016

Peschke, Georg Localizing groups with action. 90j:55017

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20J99 None of the above, but in this section

Kim, In Su Some properties of D^p -groups. 90j:20116

Items with secondary classifications in 20J99

Berrick, A. J. Fibrations with Hopfian properties. 90i:55027

Ellis, G. J. Crossed modules. 90d:20001

Frenkel, E. V. Cohomology of the commutator subgroup of the braid group. 90h:20055

Gilbert, N. D. (with Higgins, P. J.) The nonabelian tensor product of groups and related constructions. 90c:20026

Higgins, P. J. see Gilbert, N. D., 90c:20026

Iranov, N. V. The second bounded cohomology group. (Russian. English summary) 90a:55015

20Kxx Abelian groups

(Göbel, Rüdiger) see Abelian group theory, 90d:20093

(Walker, Elbert A.) see Abelian group theory, 90d:20093

Items listed otherwise than by author

Abelian group theory ★ Abelian group theory. 90d:20093

Conference:

Abelian Group Theory ★ Abelian group theory. 90d:20093

Oberwolfach ★ Abelian group theory. 90d:20093

Items with secondary classifications in 20Kxx

(Fuchs, László) see Abelian group theory, 90a:20005

(Göbel, Rüdiger) see Abelian group theory, 90a:20005

(Schultz, Phillip) see Abelian group theory, 90a:20005

Items listed otherwise than by author

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20K01 Finite abelian groups

- Corrádi, Keresztély (with Szabó, Sándor) A new proof of Rédei's theorem. 90i:20056
 Fang, Xia Gui A characterization of finite 2-DCI groups. (Chinese) 90j:20117
 Hayden, John L. Elementary abelian Cartesian groups. 90d:20094
 Ohadi, Evelyn E. On factorizations of finite abelian groups which admit replacement of a Z -set by a subgroup. 90c:20065
 Szabó, Sándor A stronger form of Rédei's theorem for p -groups. 90m:20062
 — On a problem of A. D. Sands. 90i:20057
 — see also Corrádi, Keresztély, 90i:20056
 Szalay, Tamás (with Wettl, Ferenc) On complexes in a finite abelian group. I. 90c:20066a
 — (with Wettl, Ferenc) On complexes in a finite abelian group. II. 90c:20066b
 Wettl, Ferenc see Szalay, Tamás, 90c:20066a and 90c:20066b

Items with secondary classifications in 20K01

- Cheng, Yungchen Decompositions of U -groups. 90h:20001
 Koplovich, L. E. Difference sets in noncyclic abelian groups. 90g:05047

20K05 Finitely generated groups

Items with secondary classifications in 20K05

- Andreadakis, S. (with Raptis, E.; Varsos, D.) Extending isomorphisms to automorphisms. 90j:20054
 Raptis, E. see Andreadakis, S.; et al., 90j:20054
 Varsos, D. see Andreadakis, S.; et al., 90j:20054

20K10 Torsion groups, primary groups and generalized primary groups

- Benabdallah, K. (with Piché, C.) Sur les sous-groupes purifiables des groupes abéliens primaires. (English summary) [On the purifiable subgroups of primary abelian groups] 90m:20063
 Berlinghoff, W. P. (with Moore, J. Douglas; Reid, J. D.) Imbedded subgroups of abelian groups. 90m:20064
 Cutler, Doyle O. Abelian p -groups determined by their p^n -socle. 90f:20076
 — (with Mader, A.; Megibben, Charles) Essentially indecomposable abelian p -groups having a filtration of prescribed type. 90d:20095
 Dugas, Manfred (with Vergosen, René) On socles of abelian p -groups in L . 90g:20078
 Honda, Kin-ya Plain global bases of reduced abelian p -groups. 90h:20047
 Mader, A. see Cutler, Doyle O.; et al., 90d:20095
 Megibben, Charles ω_1 -separable p -groups. 90f:20077
 — see also Cutler, Doyle O.; et al., 90d:20095
 Moore, J. Douglas see Berlinghoff, W. P.; et al., 90m:20064
 Onishi, Makoto Straight and strongly straight abelian p -groups. 90f:20078
 Piché, C. see Benabdallah, K., 90m:20063
 Reid, J. D. see Berlinghoff, W. P.; et al., 90m:20064
 Ren, Hong Shuo Structure and classification of reduced abelian p -groups. (Chinese) (Not in MR)
 Shelah, Saharon On reconstructing separable reduced p -groups with a given socle. 90g:20079
 Vergosen, René see Dugas, Manfred, 90g:20078

Items with secondary classifications in 20K10

- Bano, Razia see Khan, Mohammad Zahair, 90c:16038
 Benabdallah, K. (with Cutler, Doyle O.; Mader, A.) Extensions of torsion-complete p -groups. 90h:20049
 Cutler, Doyle O. see Benabdallah, K.; et al., 90h:20049
 Khan, Mohammad Zahair Complement submodule and quasi-essential submodule. 90c:16030
 — (with Bano, Razia) On k -purity in QTAG-modules. II. 90c:16038
 Liebert, Wolfgang Isomorphic automorphism groups of primary abelian groups. 90g:20085
 Mader, A. Heinz Prüfer and his papers on abelian groups. 90f:01035
 — see also Benabdallah, K.; et al., 90h:20049
 (Prüfer, Heinz) see Mader, A., 90f:01035
 Schultz, Phillip The endomorphism ring of a valued group. 90c:20073
 Wang, Rui Pu The number of fuzzy subgroups of finite abelian p -groups. I. (Chinese) 90k:20113

20K12 Ulm sequences

Items with secondary classifications in 20K12

- Göbel, Rüdiger Helmut Ulm: his work and its impact on recent mathematics. 90c:01035
 (Ulm, Helmut) see Göbel, Rüdiger, 90c:01035

20K15 Torsion free groups, finite rank

- Albrecht, Ulrich (with Hill, Paul D.) Separable vector groups. 90g:20080
 Arnold, David M. (with Vinsonhaler, C.) Representing graphs for a class of torsion-free abelian groups. 90h:20077
 — (with Vinsonhaler, C.) Quasi-endomorphism rings for a class of Butler groups. 90c:20067
 — Representations of partially ordered sets and abelian groups. 90j:20118
 Blagoveshchenskaya, E. A. (with Yakovlev, A. V.) Direct decompositions of torsion-free abelian groups of finite rank. (Russian) 90h:20078
 Butler, M. C. R. Some almost split sequences in torsionfree abelian group theory. 90f:20079
 Faticoni, Theodore G. (with Goeters, H. Pat) On torsion-free Ext. 90d:20098
 Fomin, A. Torsion-free abelian groups of rank 3. (Russian) 90k:20090
 Giovannitti, Anthony J. Pure subgroups of projective diagrammatic groups. 90a:20111
 Goeters, H. Pat When is $\text{Ext}(A, B)$ torsion-free?, and related problems. 90d:20097
 — (with Reid, J. D.) On the p -rank of $\text{Hom}(A, B)$. 90c:20068

- Generating an injective class of torsion-free abelian groups. 90h:20048
 — (with Vinsonhaler, C.; Wickless, William J.) Hypertypes of torsion-free abelian groups of finite rank. 90d:20096
 — (with Wickless, William J.) Hyper- τ groups. 90c:20048
 — Finitely faithful S -groups. 90f:20080
 — see also Faticoni, Theodore G., 90d:20098
 Hill, Paul D. see Albrecht, Ulrich, 90g:20080
 Kozhukhov, S. F. (with Nikiforov, V. A.) Torsion-free abelian groups with finite groups of automorphisms. (Russian) 90m:20065
 Kravchenko, A. A. Balanced and cobalanced Butler groups. 90h:20079
 Metelli, Claudia On automorphisms of completely decomposable torsionfree abelian groups. 90m:20066
 Mützbauer, Otto Type invariants of torsion-free abelian groups. 90c:20069
 Nikiforov, V. A. see Kozhukhov, S. F., 90m:20065
 Pérez-Seguí, María L. Classification of rank 2 groups whose typeset contains at least three elements. 90a:20112
 Reid, J. D. see Goeters, H. Pat, 90c:20068
 Stelzer, J. Ring theoretical criteria for cancellation. 90k:20091
 Vinsonhaler, C. see Arnold, David M., 90c:20067; Goeters, H. Pat; et al., 90d:20096 and Arnold, David M., 90h:20077
 Wickless, William J. see Goeters, H. Pat; et al., 90d:20096 and 90c:20048
 Yakovlev, A. V. see Blagoveshchenskaya, E. A., 90h:20078

Items with secondary classifications in 20K15

- Lady, E. L. Warfield duality and rank-one quasi-summands of tensor products of finite rank locally free modules over Dedekind domains. 90k:13007
 Metelli, Claudia Almost separable torsionfree abelian groups. 90g:20083
 Pierce, R. S. E -modules. 90c:13013

20K20 Torsion free groups, infinite rank

- Albrecht, Ulrich Abelian groups A such that the category of A -solvable groups is preabelian. 90c:20049
 — Endomorphism rings and a generalization of torsion-freeness and purity. 90h:20080
 Bican, Ladislav On countable Butler groups. 90g:20081
 Dugas, Manfred (with Hausen, Jutta) Torsion-free E -uniserial groups of infinite rank. 90c:20070
 — (with Oxford, Edwin P.) Preradicals induced by torsion free abelian groups. 90c:20051
 — (with Irwin, John M.) On pure subgroups of Cartesian products of integers. 90c:20050
 — (with Hill, Paul D.; Rangaswamy, K. M.) Butler groups of infinite rank. II. 90k:20092
 Eda, Katsuya (with Ohta, Haruto) On abelian groups of integer-valued continuous functions, their Z -duals and Z -reflexivity. 90f:20081
 Hausen, Jutta On strongly irreducible torsion-free abelian groups. 90g:20082
 — see also Dugas, Manfred, 90c:20070
 Hill, Paul D. see Dugas, Manfred; et al., 90k:20092
 Irwin, John M. see Dugas, Manfred, 90c:20050
 Krylov, P. A. A class of quasipure injective abelian groups. 90h:20081
 Mekler, Alan H. (with Shelah, Saharon) When κ -free implies strongly κ -free. 90f:20082
 Metelli, Claudia Almost separable torsionfree abelian groups. 90g:20083
 — Bihomogeneous groups. 90h:20082
 Ohta, Haruto see Eda, Katsuya, 90f:20081
 Oxford, Edwin P. see Dugas, Manfred, 90c:20051
 Rangaswamy, K. M. see Dugas, Manfred; et al., 90k:20092
 Shelah, Saharon A note on κ -freeness of abelian groups. (see 90a:03037)
 — see also Mekler, Alan H., 90f:20082
 Wald, Burkhard On the groups Q_κ . 90j:20119

Items with secondary classifications in 20K20

- Albrecht, Ulrich (with Hill, Paul D.) Separable vector groups. 90g:20080
 Dolgii, Yu. F. (with Shimanov, S. N.) The effect of a small delay on the stability of canonical systems of linear differential equations. (Russian) 90i:34109
 Dugas, Manfred (with Shelah, Saharon) E -transitive groups in L . 90i:20060
 Eckert, Ernest J. (with Vestergaard, Preben Dahl) Groups of integral triangles. 90i:51019
 Faticoni, Theodore G. (with Goeters, H. Pat) On torsion-free Ext. 90d:20098
 Franzen, Berthold (with Göbel, Rüdiger) The Brenner-Butler-Corner theorem and its applications to modules. 90g:16029
 Göbel, Rüdiger see Franzen, Berthold, 90g:16029
 Goeters, H. Pat When is $\text{Ext}(A, B)$ torsion-free?, and related problems. 90d:20097
 — see also Faticoni, Theodore G., 90d:20098
 Hill, Paul D. see Albrecht, Ulrich, 90g:20080
 Krylov, P. A. Torsion-free abelian groups with hereditary endomorphism rings. 90f:20086
 Metelli, Claudia On automorphisms of completely decomposable torsionfree abelian groups. 90m:20066
 Mützbauer, Otto Type invariants of torsion-free abelian groups. 90c:20069
 Rychkov, S. V. Endomorphism rings of abelian groups. 90f:20084
 Shelah, Saharon see Dugas, Manfred, 90i:20060
 Shimanov, S. N. see Dolgii, Yu. F., 90i:34109
 Solfer, Alexander For singular cardinals λ of cofinality ω , λ -decomposable groups are λ^+ -decomposable. 90i:20059
 Vestergaard, Preben Dahl see Eckert, Ernest J., 90i:51019

20K21 Mixed groups

- Hill, Paul D. (with Megibben, Charles) Knice subgroups of mixed groups. 90h:20083
 — (with Megibben, Charles) The local equivalence theorem. 90f:20083
 Kominek, Z. Some properties of decompositions of a commutative group. 90j:20120
 Lane, Mark Fully invariant submodules of p -local balanced projective groups. 90d:20099
 May, Warren The direct factor problem for modular abelian group algebras. 90c:20071
 Megibben, Charles see Hill, Paul D., 90f:20083 and 90h:20083

Items with secondary classifications in 20K21

Benabdallah, K. (with Cutler, Doyle O.; Mader, A.) Extensions of torsion-complete p -groups. 90b:20049

Cutler, Doyle O. *see* Benabdallah, K.; et al., 90b:20049

Mader, A. *see* Benabdallah, K.; et al., 90b:20049

20K25 Direct sums, direct products, etc.

Charles, Bernard La condition $G \cong H \oplus G/H$ pour un groupe abélien. [The condition $G \cong H \oplus G/H$ for an abelian group] 90k:20093

Göbel, Rüdiger (with Ziegler, Martin) Very decomposable abelian groups. 90e:20052

Keef, Patrick On set theory and the balanced-projective dimension of C_D groups. 90d:20100

Lane, Mark On p -local abelian groups with decomposition bases. 90i:20058

O'Neill, John D. On decompositions of modules and submodules. 90g:20084

Seifert, Alexander For singular cardinals λ of cofinality ω , λ -decomposable groups are λ^+ -decomposable. 90i:20059

Ziegler, Martin *see* Göbel, Rüdiger, 90e:20052

Items with secondary classifications in 20K25

Albrecht, Ulrich (with Hill, Paul D.) Separable vector groups. 90g:20080

Hill, Paul D. *see* Albrecht, Ulrich, 90g:20080

Johnson, David Lawrence Noncancellation and nonabelian tensor squares. 90a:20062

20K26 Indecomposable groups

Irwin, John M. (with Okoh, Frank) Essentially purely indecomposable groups. 90a:20113

Okoh, Frank *see* Irwin, John M., 90a:20113

Items with secondary classifications in 20K26

Cutler, Doyle O. (with Mader, A.; Megibben, Charles) Essentially indecomposable abelian p -groups having a filtration of prescribed type. 90d:20095

Dugas, Manfred On modules over valuation rings with a nil radical. 90f:13002

Mader, A. *see* Cutler, Doyle O.; et al., 90d:20095

Megibben, Charles *see* Cutler, Doyle O.; et al., 90d:20095

20K27 Subgroups

Items with secondary classifications in 20K27

Benabdallah, K. (with Piché, C.) Sur les sous-groupes purifiables des groupes abéliens primaires. (English summary) [On the purifiable subgroups of primary abelian groups] 90m:20063

Dugas, Manfred (with Vergohsen, René) On socles of abelian p -groups in L . 90g:20078

Goeters, H. Pat (with Wickless, William J.) Hyper- r groups. 90e:20048

Piché, C. *see* Benabdallah, K., 90m:20063

Shelah, Saharon On reconstructing separable reduced p -groups with a given socle. 90g:20079

Vergohsen, René *see* Dugas, Manfred, 90g:20078

Wickless, William J. *see* Goeters, H. Pat, 90e:20048

20K30 Automorphisms, homomorphisms, endomorphisms, etc.

Dugas, Manfred (with Shelah, Saharon) E -transitive groups in L . 90i:20060

Liebert, Wolfgang Isomorphic automorphism groups of primary abelian groups. 90g:20085

May, Warren Endomorphism rings of mixed abelian groups. 90e:20072

Rychkov, S. V. Endomorphism rings of abelian groups. 90f:20084

Schultz, Phillip The endomorphism ring of a valued group. 90e:20073

Shelah, Saharon *see* Dugas, Manfred, 90i:20060

Szabó, Edit Über die Invarianten endlicher abelscher Gruppenpaare. [On the invariants of finite abelian group pairs] 90k:20094

Zanardo, Paolo (with Zannier, Umberto) On the vector space of translates of a map from an abelian group into a field of positive characteristic. (Italian summary) 90i:20061

Zannier, Umberto *see* Zanardo, Paolo, 90i:20061

Items with secondary classifications in 20K30

Albrecht, Ulrich Endomorphism rings and a generalization of torsion-freeness and purity. 90h:20080

Göbel, Rüdiger (with May, Warren) Independence in completions and endomorphism algebras. 90j:16070

Goldsmith, B. On endomorphisms and automorphisms of some torsion-free modules. 90h:16051

Hill, Paul D. (with Megibben, Charles) The local equivalence theorem. 90f:20083

Kozhukhov, S. F. (with Nikiforov, V. A.) Torsion-free abelian groups with finite groups of automorphisms. (Russian) 90m:20065

Kurepa, S. On P. Volkmann's paper. (Serbo-Croatian summary) 90d:39015

Maxson, Carlton J. (with Natarajan, Ponnammal) E -full and E -rigid meromorphic products. 90f:16052

May, Warren *see* Göbel, Rüdiger, 90j:16070

Megibben, Charles *see* Hill, Paul D., 90f:20083

Natarajan, Ponnammal *see* Maxson, Carlton J., 90f:16052

Nikiforov, V. A. *see* Kozhukhov, S. F., 90m:20065

Pierce, R. S. E -modules. 90i:13013

20K35 Extensions

Benabdallah, K. (with Cutler, Doyle O.; Mader, A.) Extensions of torsion-complete p -groups. 90b:20049

Cannonito, F. B. On inequivalent group extensions. 90m:20067

Cutler, Doyle O. *see* Benabdallah, K.; et al., 90b:20049

Fuchs, László¹ A generalization of Baer's splitting problem on abelian groups. 90f:20085

Generalov, A. I. The Kuz'minov formula. 90a:20114

Grossberg, Rami (with Shelah, Saharon) On the structure of $\text{Ext}_p(G, Z)$. 90d:20101

Mader, A. *see* Benabdallah, K.; et al., 90b:20049

Schultz, Phillip Finite extensions of torsion-free groups. 90j:20121

Shelah, Saharon *see* Grossberg, Rami, 90d:20101

Items with secondary classifications in 20K35

Faticoni, Theodore G. (with Goeters, H. Pat) On torsion-free Ext. 90d:20098

Goeters, H. Pat When is $\text{Ext}(A, B)$ torsion-free?, and related problems. 90d:20097

— *see also* Faticoni, Theodore G., 90d:20098

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Deretsky, Tatiana On existence of AIP neofields of odd order. 90j:12021

Eda, Katsuya Cardinality restrictions on preradicals. 90g:16009

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- Luo, Li Bo On the computational complexity of the theory of abelian groups. 90a:03061
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- Mekler, Alan H. (with Shelah, Saharon) Diamond and λ -systems. 90i:03055
— (with Shelah, Saharon) Uniformization principles. 90i:03089
- Pelling, M. J. Subadditive functions on modules and subgroups of abelian groups. 90f:39018
- Shelah, Saharon ★ Around classification theory of models. 90a:03037
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- Xuan, Heng Nong A simple proof of a famous theorem in abstract algebra. (Chinese) (Not in MR)

20Lxx Groupoids (small categories in which all morphisms are isomorphisms)

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- Kack, Anders On the integration theorem for Lie groupoids. 90j:20124
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- Mayer, Meinhard E. Groupoids and Lie bigbras in gauge and string theories. 90b:17039

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- Mikami, Kentaro (with Weinstein, Alan D.) Moments and reduction for symplectic groupoids. 90c:58060
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- Items with secondary classifications in 20L99
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- Dazord, P. see Costé, Alain; et al., 90g:58033
- Ellis, G. J. Crossed modules. 90d:20001
- Häding, Michael Algebraische Strukturen spezieller diskreter Optimierungsprobleme. [Algebraic structures of special discrete optimization problems] 90b:90110
- Šipol, Ján On totally noncommutative convergence groupoids. (Russian summary) 90j:20148
- Weinstein, Alan D. see Costé, Alain; et al., 90g:58033

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- (Katsura, Masashi) see Proceedings: Symposium on Semigroups, 90k:20003
- (Kobayashi, Yuji) see Proceedings: Symposium on Semigroups, 90c:20002
- Items listed otherwise than by author
- Kyoto ★ Proceedings of the 13th Symposium on Semigroups. 90k:20003
- Proceedings:
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— ★ Proceedings of the 13th Symposium on Semigroups. 90k:20003
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- Choffrut, C. A remark on the representation of trace monoids. 90k:20096
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- Faiziev, V. A. Pseudocharacters that are invariant with respect to semigroup endomorphisms. (Russian. Tajiki summary) 90f:20067
- Gass, Michael An order topology for finitely generated free monoids. 90g:20088
- Kobayashi, Yuji (with Saito, Tatsuhiro) Compatible orders on a free monoid. (see 90k:20003)
- Madlener, Klaus (with Otto, Friedrich) On groups having finite monadic Church-Rosser presentations. 90a:20117
— (with Otto, Friedrich) Commutativity in groups presented by finite Church-Rosser Thue systems. (French summary) 90a:20118
- Makaridina, V. A. Orderability of free idempotent semigroups. (Russian) 90d:20102
- Otto, Friedrich see Madlener, Klaus, 90a:20117 and 90a:20118
- Pirillo, G. The van der Waerden theorem and the Burnside problem for semigroups. 90f:20088
- Reilly, N. R. Free combinatorial strict inverse semigroups. 90b:20050
- Reis, C. M. Infix congruences on a free monoid. 90a:20119
- Saito, Tatsuhiro see Kobayashi, Yuji, 90k:20003
- Shneerson, L. M. On the axiomatic rank of varieties generated by a semigroup or monoid with one defining relation. 90a:20120
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- Spehner, Jean-Claude Every finitely generated submonoid of a free monoid has a finite Mal'cev's presentation. 90f:20089
- Tang, Chang Jie (with Zhang, Yi Li) The unique decomposition theorem of the semigroup of infix queries. 90a:20121
- Weinbaum, C. M. Unique subwords in nonperiodic words. 90k:20097
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- Items with secondary classifications in 20M05
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- Book, Ronald V. Dehn's algorithm and the complexity of word problems. 90k:03039
- Bruyère, Véronique About prefix sets of words. 90c:94042
- Duchamp, G. (with Thibon, J.-Y.) Le support de l'algèbre de Lie libre. (English summary) [The support of the free Lie algebra] 90b:17007
- Gerhard, J. A. (with Petrich, Mario) Certain characterizations of varieties of bands. 90c:20076
- Lysenko, F. F. Numerical functions on identities. (Russian) 90f:20070
- Madlener, Klaus (with Otto, Friedrich) Pseudonatural algorithms for finitely generated presentations of monoids and groups. 90f:20047
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- Simon, Imre Recognizable sets with multiplicities in the tropical semiring. (see 90i:68010)
- Thibon, J.-Y. see Duchamp, G., 90b:17007
- Tsaranov, S. V. Classification of Coxeter-type monoids that have attractors. 90f:20048
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- ## 20M07 Varieties of semigroups
- Beaudry, Martin Characterization of idempotent transformation monoids. 90m:20069
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- Geneser, Susan H. (with Weinert, Hanns J.) On the embedding of partial groupoids into semigroups. 90b:20086
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- Hall, T. E. Identities for existence varieties of regular semigroups. 90j:20127
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- Larionov, N. B. On the paper: "Embedding of semigroup amalgams in varieties" [in Semigroups and partial groupoids (Russian), 45–58, Leningrad Gos. Ped. Inst., Leningrad, 1987; MR 89b:20127]. (Russian) 90c:20078
- Embedding in varieties of semigroup amalgams that have external semigroup continuations. (Russian) (see 90k:20004)
- Martynov, L. M. On spectra of solvability and attainability for varieties of semigroups. 90c:20091
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- Nakajima, Siro On the augmented hull of bands. (see 90c:20002)
- Petrich, Mario see Gerhard, J. A., 90c:20074; 90c:20075 and 90c:20076
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- Repitskii, V. B. (with Katsman, S. I.) Commutative semigroups the lattice of whose subsemigroups satisfies a nontrivial identity. 90f:20092
- Reiz, E. N. On the basis property of subdirect products of semigroups with a generalized left cancellation condition, possibly with a zero adjoined. (Russian) 90k:20098
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- Trotter, P. G. Subdirect decompositions of the lattice of varieties of completely regular semigroups. 90b:20088
- Injectives in varieties of completely regular semigroups. 90b:20089
- Vachuska, Colleen Identities on free products of bands. 90d:20103

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 Henckell, Karsten Pointlike sets: the finest aperiodic cover of a finite semigroup. 90f:20094
 Higgins, Peter M. Embedding in bisimple semigroups. 90g:20090
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 Imoka, Tetsuo Special amalgamation for regular semigroups. (see 90c:20002)
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 Szendrei, Mária B. A note on Birget-Rhodes expansion of groups. 90k:20103
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 — (with Yamaoka, Kenya) Note on finite power semigroups. (see 90k:20003)
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 Yashina, E. Yu. Approximation of semigroups by inverse completely regular semigroups. (Russian) (see 90k:20004)
 Zhu, Ping (with Guo, Yu Qi; Ren, Xue Ming) Semilattice (matrix)-matrix (semilattice) decomposition of quasicompletely orthodox semigroups into quasigroups. (Chinese) 90m:20075
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 Goberstein, Simon M. Inverse semigroups determined by their bundles of correspondences. 90j:20134
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 Kehayopulu, Niori On weakly prime, weakly semiprime, prime ideal elements in poe-semigroups. 90f:06028
 Levi, Inessa (with Schein, Boris M.) The semigroup of one-to-one transformations with finite defects. 90f:20104
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 Peters, Wolfgang Berechnung der linearen involutorischen Halbgruppen sechster und siebenter Ordnung. [Computing the linear involutory semigroups of sixth and seventh order] 90d:06022
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 — (with Pondělíček, Bedřich) On α -ideals and generalized α -ideals in semigroups. 90g:20095
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20M14 Commutative semigroups

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 — Absolute approximation of semigroups by bicharacters. (Russian) (see 90k:20004)
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- Bandier, Franz** (with Büttner, Wolfram) Unification in commutative idempotent monoids. 90c:68089
- Büttner, Wolfram** see **Bandier, Franz**, 90c:68089
- Craig, R.** (with Páles, Z.) The associativity equation revisited. 90g:39019
- Eigenhaller, G.** (with Nöbauer, Wilfried; Wiesenbauer, J.) Über Halbgruppen vertauschbarer Polynome. [On semigroups of commuting polynomials] 90b:11131
- Katsman, S. I.** see **Repolitskii, V. B.**, 90f:20092
- Mareš, Milan** Addition of rational fuzzy quantities: convolutive approach. 90b:94014
- Martynov, L. M.** On spectra of solvability and attainability for varieties of semigroups. 90f:20091
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- see also **Eigenhaller, G.**; et al., 90b:11131
- Páles, Z.** A Stone-type theorem for abelian semigroups. 90c:20056
- see also **Craig, R.**, 90g:39019
- Repolitskii, V. B.** (with Katsman, S. I.) Commutative semigroups the lattice of whose subsemigroups satisfies a nontrivial identity. 90f:20092
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- Wang, Hua Xiong** A note on endomorphism semirings of semimodules. 90f:16033
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- Fleischer, V.** Isomorphisms of wreath products of monoids. II. 90a:20130
- Geneser, Susan H.** (with Weinert, Hanns J.) On the embedding of partial groupoids into semigroups. 90b:20086
- Pusack, Martin** Ordnungstreue Homomorphismen einer kommutativen Halbgruppe in $(\mathbb{R}_+, +, \leq)$. (English and Russian summaries) [Order-preserving homomorphisms of a commutative semigroup in $(\mathbb{R}_+, +, \leq)$] 90f:06029
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- Gerhard, J. A.** (with Petrich, Mario) Varieties of bands revisited. 90c:20075
- Hall, T. E.** Identities for existence varieties of regular semigroups. 90j:20127
- Higgins, Peter M.** Embedding in bisimple semigroups. 90g:20090
- Imaoka, Teruo** Special amalgamation for regular semigroups. (see 90c:20002)
- Lawson, Mark V.** An order theoretic characterisation of locally orthodox regular semigroups. 90b:20054
- Petrich, Mario** Congruences on completely regular semigroups. 90g:20092
- see also **Gerhard, J. A.**, 90c:20075
- Putcha, Mohan S.** see **Augustine, M. K.**, 90j:20095
- Renner, Lex E.** Completely regular algebraic monoids. 90g:20093
- Saito, Tatsuhiro** Naturally ordered regular semigroups with maximum inverses. 90d:20104
- Construction of regular semigroups with inverse transversals. 90d:20105
- Orthodox semidirect products and wreath products of monoids. 90d:20106
- Skorsky, Martin** Regular monoids generated by two Galois connections. 90f:20066
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- Hall, T. E.** (with Johnston, K. G.) The lattice of pseudovarieties of inverse semigroups. 90f:20090
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- Kozhevnikov, O. B.** Unions of Brandt semigroups. (Russian) (see 90k:20004)
- Margolis, Stuart W.** (with Meakin, John C.) E -unitary inverse monoids and the Cayley graph of a group presentation. 90f:20096
- Meakin, John C.** see **Margolis, Stuart W.**, 90f:20096
- Meldrum, J. D. P.** Group theoretic results in Clifford semigroups. 90a:20122
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- Saito, Tatsuhiro** Orthodox semidirect products and wreath products of monoids. 90d:20106
- Sokol'skii, A. G.** Semigroup rings of semilattices of groups. (Russian) 90m:20078

Yashina, E. Ya. Approximation of semigroups by inverse completely regular semigroups. (Russian) (see 90k:20004)

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- Beaudry, Martin** Membership testing in commutative transformation semigroups. 90f:20103
- Dehornoy, Patrick** Free distributive groupoids. 90j:20135
- Feizullayev, R. B.** Semigroups of transformations of fixed rank. 90a:20129
- Fleischer, V.** Isomorphisms of wreath products of monoids. II. 90a:20130
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- Kossaczky, Igor** On Schützenberger monoids in transformations semigroups. 90a:20131
- Lazarus, Susan** see **Henckell, Karsten**; et al., 90c:20058
- Levi, Inessa** (with Schein, Boris M.) The semigroup of one-to-one transformations with finite defects. 90f:20104
- Macedońska, Olga** The semigroup of endomorphisms of the free group of infinite rank. 90c:20059
- Magill, K. D., Jr.** On the ideals of the semigroup of the 1-sphere. 90c:20068
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- Mikhailov, A. B.** Semigroups and operands of mappings. (Russian) (see 90k:20004)
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- Rhodes, John** see **Henckell, Karsten**; et al., 90c:20058
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- Császár, A.** u -isomorphic semigroups of continuous functions in locally compact spaces. 90a:54048
- Derech, V. D.** Stable quasi-orders on some semigroups of partial monotone transformations of a finite ordered set. (Russian) (see 90d:06034)
- Gould, Matthew** see **Adams, M. E.**, 90m:06002
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- (with Normak, Peeter) Morita duality for monoids. 90m:20081
- Maxson, Carlton J.** (with Pilz, Günter F.) Endomorphisms of fibred groups. 90a:20056
- Muradov, F. Kh.** Superassociative algebras of partial continuous functions. (Russian. English and Azerbaijani summaries) 90c:54091
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- Klyushin, A. V.** (with Kozhukhov, I. B.) On algebraically compact semigroup rings. 90d:20112
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- Okniński, Jan** (with Putcha, Mohan S.) PI semigroup algebras of linear semigroups. 90j:20137
- Putcha, Mohan S.** see **Okniński, Jan**, 90j:20137
- Sokol'skii, A. G.** Semigroup rings of semilattices of groups. (Russian) 90m:20078
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- Hannah, John (with O'Meara, K. C.) Depth of idempotent-generated subsemigroups of a regular ring. 90b:16021
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- O'Meara, K. C. see Hannah, John, 90b:16021
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- Lemla, A. Yu. An application of the theory of isosceles (ultrametric) spaces to the Trnková-Vinárček theorem. 90b:20097
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- Rasulov, N. S. Approximation of compact topological semigroups by continuous bicharacters with respect to predicates. (Russian) 90b:20138
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- DeVun, E. E. (with Graham, George E.) Semigroups with commuting threads. 90b:22003
- Duncan, John (with Paterson, Alan L. T.) C^* -algebras of Clifford semigroups. 90b:46071
- Graham, George E. see DeVun, E. E., 90b:22003
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- Tanaka, Genjiro On characteristic semigroups of Mealy automata. (see 90b:20002)
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- Carl, R. (with Métivier, Y.) Approximation of a trace, asynchronous automata and the ordering of events in a distributed system. (see 90b:68004)
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- Ito, Masami¹ (with Katsura, Masashi; Shih, Hui Jan) Relations between disjunctive languages and regular languages. (see 90b:20002)
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- Rupert, C. P. Comment on a remark of W. Forys: "Fixed point languages of rational transformations" [Semigroup Forum 34 (1986), no. 2, 177–183; MR 88d:68050]. 90b:68076
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20M50 Connections with homological algebra and category theory

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- Harwitz, Carol M. On the homotopy theory of monoids. 90b:20072
- Kilp, Mati (with Knauer, Ulrich; Mikhailév, A. V.) Wreath products of acts over monoids. II. Torsion free and divisible acts. 90b:20060
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- Novikov, B. V. Partial cohomology of semigroups and its applications. 90a:20135
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- Tilson, Bret Categories as algebra: an essential ingredient in the theory of monoids. 90b:20061

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- Berstel, J. (with Crochemore, Maxime; Pin, J.-E.) Thue-Morse sequence and p -adic topology for the free monoid. 90b:68054
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- Crochemore, Maxime see Berstel, J., et al., 90b:68054
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- Meshtag, Q. A note on almost semigroups. 90b:20110
- A note on translative mappings on LA-semigroups. 90b:20147
- A note on left almost semigroups. 90b:20077
- Pin, J.-E. see Berstel, J., et al., 90b:68054
- Putcha, Mohan S. \star Linear algebraic monoids. 90a:20003
- Linear algebraic monoids and G/H embeddings. 90b:20096
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20Nxx Other generalizations of groups

20N05 Loops, quasigroups [see also 05Bxx]

- Bannai, Eiichi (with Song, Sung-Yell) The character tables of Paige's simple Moufang loops and their relationship to the character tables of $PSL(2, q)$. 90b:20057
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- The spectra of a variety of quasigroups and related combinatorial designs. 90b:20105
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- Fan, Zhi Hua Partially ordered structure in loops. 90b:20106
- Galkin, V. M. On the Fischer-Smith theorem. 90a:20138
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- Johnson, Kenneth Walter (with Smith, J. D. H.) Characters of finite quasigroups. III. Quotients and fusion. 90a:20139
- (with Smith, J. D. H.) Characters of finite quasigroups. IV. Products and superschemes. 90b:20142
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- Robinson, D. A. Some Moufang G -loops in a matrix setting. 90b:20107
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- Akivis, M. A. (with Shelekhov, A. M.) Fourth-order alternators of a local analytic loop and three-webs of multidimensional surfaces. (Russian) 90f:53032
 Armanious, Magdi H. Classification of the Steiner quadruple systems of cardinality 32. 90m:05017
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 Boshach, Bruno Lattice ordered binary systems. 90k:06031
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 Kikkawa, Michihiko Projectivity of left loops on \mathbb{R}^n . 90k:53060
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20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)

- Santiago, M. L. see Sribala, S., 90d:20117
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 Shvarts, V. Ya. Dense extensions of commutative n -semigroups. (Russian) 90b:20100
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- Smith, J. D. H. Multilinear algebras and Lie's theorem for formal n -loops. 90k:17007

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- Akgül, Mustafa Some properties of fuzzy groups. 90a:20141
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 Corsini, Piergiulio (S.p.i.)-hypergroups of order 6. (Italian. English summary) 90a:20142
 — (with Vougiouklis, T.) From groupoids to groups through hypergroups. (Italian summary) 90m:20085
 Covaci, Rodica On abelian Ω -groups. (Romanian summary) 90g:20100
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- De Salvo, Mario Commutative hypergroups of order 5 and constant length 2. (Italian. English summary) 90a:20143
 Eroglu, Mehmet Salt The homomorphic image of a fuzzy subgroup is always a fuzzy subgroup. 90k:20075
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 Gerber, G. K. A nil radical for Ω -groups. 90k:20109
 Haddad, Lahib (with Sureau, Yves) Les cogroupes et les D -hypergroupes. (English summary) [Cogroups and D -hypergroups] 90a:20144
 Li, Hong Xing see Zhang, Zhen Liang; et al., 90f:20111
 Li, Tao Sheng Basics of fuzzy algebra. I. Fuzzy groups. (Chinese. English summary) 90k:20076
 Mishref, M. Atif see Sidky, F. I., 90k:20110
 Mushtaq, Q. A note on almost semigroups. 90f:20110
 — A note on transitive mappings on LA-semigroups. 90j:20147
 — A note on left almost semigroups. 90k:20077
 Romanowska, Anna B. On some representations of groupoid modes satisfying the reduction law. 90d:20120
 — (with Roszkowska, B.) Representations of n -cyclic groupoids. 90a:20145
 Roszkowska, B. see Romanowska, Anna B., 90a:20145
 Sidky, F. I. (with Mishref, M. Atif) Divisible and pure fuzzy subgroups. 90k:20110
 Špoi, Ján On totally noncommutative convergence groupoids. (Russian summary) 90j:20148
 Steiner, Richard Multiple semidirect products of associative systems. 90k:20111
 Sureau, Yves see Haddad, Lahib, 90a:20144
 Volenc, Vladimir Subtractive groupoids and TST-spaces. 90k:20112
 Vougiouklis, T. see Corsini, Piergiulio, 90m:20085
 Wang, Pei Zhuang see Zhang, Zhen Liang; et al., 90f:20111
 Wang, Rui Pu The number of fuzzy subgroups of finite abelian p -groups. I. (Chinese) 90k:20113
 — The structure of fuzzy quotient groups. (Chinese. English summary) 90j:20149
 Zhang, Zhen Liang (with Li, Hong Xing; Wang, Pei Zhuang) The relationship between regular hypergroups and quotient groups. (Chinese. English summary) 90f:20111

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- Bhattacharya, D. K. On pararing. 90f:17006
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 Gensemer, Susan H. (with Weinert, Hanns J.) On the embedding of partial groupoids into semigroups. 90b:20086
 Ioulidis, Stavros (with Mittas, Jean D.) Sur certaines notions préliminaires de l'hyperalgèbre linéaire. Introduction de l'hypergroupe polysymétrique. (Greek summary) [Some preliminary notions of linear hyperalgebra. Introduction to the polysymmetric hypergroup] 90e:16071
 Konstantinidou, Maria Les résiduels généralisés des éléments v -irréductibles dans les hypergroupes strictement réticulés. [Generalized residuals of v -irreducible elements in strictly lattice-ordered hypergroupoids] 90k:06037
 — Certaines conditions d'existence des résiduels généralisés. (English and Italian summaries) [Some existence conditions for generalized residuals] 90e:06036
 — (with Serafidis, K.) Sur les filets des hypergroupes canoniques strictement réticulés. (English summary) [Threads of strictly lattice-ordered canonical hypergroups] 90e:06035
 Mittas, Jean D. see Ioulidis, Stavros, 90e:16071
 Serafidis, K. see Konstantinidou, Maria, 90e:06035
 Ušan, Janex On a generalization of lattices. (Russian. Serbo-Croatian summary) 90j:06014
 Veldsman, Stefan Sufficient conditions for a well-behaved Kurosh-Amitsur radical theory. 90k:16007
 Weinert, Hanns J. see Gensemer, Susan H., 90b:20086

20P05 Probability methods in group theory

Items with secondary classifications in 20P05

- Palfy, P. P. (with Szalay, M.) Further probabilistic results on the symmetric p -groups. 90j:11109
 Szalay, M. see Palfy, P. P., 90j:11109

22-XX Topological groups, Lie groups {For transformation groups, see 54H15, 57Sxx, 58-XX. For abstract harmonic analysis, see 43-XX.}

22-00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 22-00

- Chen, Jin Quan (with Wang, Pei Ning; Lü, Zi Min; Wu, Xiong Biao) ★ Tables of the Clebsch-Gordan, Racah and subduction coefficients of $SU(n)$ groups. 90j:22025
 Lü, Zi Min see Chen, Jin Quan; et al., 90j:22025
 Wang, Pei Ning see Chen, Jin Quan; et al., 90j:22025
 Wu, Xiong Biao see Chen, Jin Quan; et al., 90j:22025

22-01 Elementary exposition; textbooks

- (Jacob, Andrei) *see* Vinberg, E. B., 90h:22001 and Lyubich, Yu. I., 90i:22001
 Lyubich, Yu. I. ★ Introduction to the theory of Banach representations of groups. 90i:22001
 Vinberg, E. B. ★ Linear representations of groups. 90h:22001

Items with secondary classifications in 22-01

- (Antelmann, Horst) *see* Dieudonné, Jean, 90c:00001
 Belinfante, Johan G. F. (with Kolman, Bernard) ★ A survey of Lie groups and Lie algebras with applications and computational methods. 90k:22033
 (Boll, Ludwig) *see* Dieudonné, Jean, 90c:00001
 Chebotarevskii, B. D. *see* Duzhin, S. V., 90d:00005
 Dieudonné, Jean ★ *Grundzüge der modernen Analysis. 2.* (German) [Fundamentals of modern analysis. 2] 90c:00001
 Duzhin, S. V. (with Chebotarevskii, B. D.) ★ От орнаментов до дифференциальных уравнений. (Russian) [From ornaments to differential equations] 90d:00005
 Kolman, Bernard *see* Belinfante, Johan G. F., 90k:22033
 Postnikov, M. M. ★ Дифференциальная геометрия. (Russian) [Differential geometry] 90h:53002

22-02 Advanced exposition (research surveys, monographs, etc.)

- Bott, Raul On induced representations. 90c:22001
 (Burger, Marc) *see* de la Harpe, Pierre, 90m:22001
 de la Harpe, Pierre (with Valette, Alain) La propriété (T) de Kazhdan pour les groupes localement compacts (avec un appendice de Marc Burger). (English summary) [Kazhdan's property (T) for locally compact groups (with an appendix by Marc Burger)] 90m:22001
 Mackey, George W. ★ Unitary group representations in physics, probability, and number theory. 90m:22002
 Valette, Alain *see* de la Harpe, Pierre, 90m:22001

Items with secondary classifications in 22-02

- Carter, R. W. ★ Simple groups of Lie type. 90g:20001
 Mackey, George W. Induced representations and the applications of harmonic analysis. 90c:22021
 Paterson, Alan L. T. ★ Amenability. 90e:43001

22-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 22-03

- Pier, Jean-Paul Some views on the evolution of harmonic analysis. 90d:01041

22-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 22-04

- Eisner, L. *see* Watkins, D. S., 90g:65056
 Watkins, D. S. (with Eisner, L.) Self-equivalent flows associated with the generalized eigenvalue problem. 90g:65056

22-06 Proceedings, conferences, etc.

- (Okamoto, Kiyosato) *see* Representations of Lie groups, 90m:22004
 (Oshima, Toshio) *see* Representations of Lie groups, 90m:22004
 (Sally, P. J., Jr.) *see* Representation theory and harmonic analysis on semisimple Lie groups, 90c:22002
 (Vogan, David A., Jr.) *see* Representation theory and harmonic analysis on semisimple Lie groups, 90c:22002

Items listed otherwise than by author

- Hiroshima ★ Representations of Lie groups, Kyoto, Hiroshima, 1986. 90m:22004
 Kyoto ★ Representations of Lie groups, Kyoto, Hiroshima, 1986. 90m:22004
 Orbites unipotentes et représentations ★ Orbites unipotentes et représentations. III. [Unipotent orbits and representations. III] 90g:22027
 Representation theory and harmonic analysis on semisimple Lie groups ★ Representation theory and harmonic analysis on semisimple Lie groups. 90c:22002
 Representation theory and its applications to physics ★ Hyogenron to sono butsuriteki ōyo. (Japanese) [Representation theory and its applications to physics] 90m:22003
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 Analysis on Homogeneous Spaces and Representations of Lie Groups ★ Representations of Lie groups, Kyoto, Hiroshima, 1986. 90m:22004
 Representation Theory and its Applications to Physics ★ Hyogenron to sono butsuriteki ōyo. (Japanese) [Representation theory and its applications to physics] 90m:22003
 Unipotent orbits and representations ★ Orbites unipotentes et représentations. III. [Unipotent orbits and representations. III] 90g:22027

Items with secondary classifications in 22-06

- (Gilmore, R.) *see* Colloquium: Group Theoretical Methods in Physics, 90i:81003

Items listed otherwise than by author

- Colloquium:
 Group Theoretical Methods in Physics ★ XV International Colloquium on Group Theoretical Methods in Physics. 90i:81003
 Philadelphia, PA ★ XV International Colloquium on Group Theoretical Methods in Physics. 90i:81003

22Axx Topological algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 47D35.}**22A05 Structure of general topological groups**

- Arkhangelskii, A. V. (with Okunev, O. G.; Pestoff, V. G.) Free topological groups over metrizable spaces. 90h:22002
 Borubaev, A. A. Uniform groups and their completions. (Russian) 90c:22003
 Câmpian, M. (with Câmpian, V.) Bitopological groups in A. A. Ivanov's meaning. 90g:22001
 Câmpian, V. *see* Câmpian, M., 90g:22001
 Chakrabarti, Sadasiv (with Lahiri, B. K.) Transformations of sets in topological group. (Russian and Slovak summaries) 90d:22001
 Clark, Bradd Evans (with Schneider, Victor P.) Atoms and antiatoms in the lattice of group topologies. 90d:22002
 Cleary, Joan (with Morris, Sidney A.) Locally dyadic topological groups. 90m:22005
 Comfort, W. W. (with van Mill, Jan) On the existence of free topological groups. 90c:22001
 Fay, Temple H. (with Walls, Gary L.) Compact nilpotent groups. 90j:22001
 Fokink, Robert A note on pseudocompact groups. 90c:22004
 Lahiri, B. K. *see* Chakrabarti, Sadasiv, 90d:22001
 Leischner, Martin (with Roelcke, Walter) On neutral subgroups of topological groups. 90c:22005
 Maria, E. I. Strengthening of a group topology of an abelian group up to a complete group. (Russian) 90c:22006
 van Mill, Jan *see* Comfort, W. W., 90c:22001
 Morris, Sidney A. *see* Cleary, Joan, 90m:22005
 Makhin, Yu. N. ★ Обобщенно коммутативные локально-компактные группы. (Russian) [Generalized-commutative locally compact groups] 90h:22001
 Okunev, O. G. *see* Arkhangelskii, A. V.; et al., 90h:22002
 Pestoff, V. G. *see* Arkhangelskii, A. V.; et al., 90h:22002
 Porst, Hans-E. Erratum to: "On free topological algebras" [Cahiers Topologie Géom. Différentielle Catégoriques 28 (1987), no. 3, 235-253; MR 89e:22004]. 90c:22002
 Prasad, Damodar (with Singh, K. P.) Alliedness of subsets of quotient topological group. 90g:22002
 Protasov, I. V. (with Sariiev, A.) The semigroup of closed subsets of a topological group. (Russian. English summary) 90c:22007
 Roelcke, Walter *see* Leischner, Martin, 90c:22005
 Ruppert, Wolfgang A. F. On open subsemigroups of connected groups. 90g:22003
 Sariiev, A. *see* Protasov, I. V., 90c:22007
 Schneider, Victor P. *see* Clark, Bradd Evans, 90d:22002
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 Sipacheva, O. V. Zero-dimensionality and completeness in free topological groups. I, II. (Russian) 90j:22002
 Tkachenko, M. G. Pseudocompact topological groups and their properties. 90c:22002
 Ursul, M. I. On the product of open-closed subsets of a topological group. (Russian) 90c:22008
 Walls, Gary L. *see* Fay, Temple H., 90j:22001
 Wojtyński, Wojciech The enveloping group of a Lie algebra. 90i:22003

Items with secondary classifications in 22A05

- Alas, O. T. Some results on pseudocompact topological groups. (Serbo-Croatian summary) 90c:54001
 Beidar, K. I. (with Glavatskii, S. T.; Mikhalev, A. V.) Varieties of topological Ω -groups. (Russian) 90k:08007
 Comfort, W. W. (with van Mill, Jan) Concerning connected, pseudocompact abelian groups. 90h:54002
 Glavatskii, S. T. *see* Beidar, K. I.; et al., 90k:08007
 Gózdził, Sławomir Lie algebra structure on the set of all one-parameter subgroups of certain metric groups. (Russian summary) 90c:22011
 Heath, R. W. Monotone normality in topological groups. (Serbo-Croatian summary) 90i:54074
 Isbell, J. (with Kříž, I.; Pultr, A.; Rosický, J.) Remarks on localic groups. 90f:18009
 Kříž, I. *see* Isbell, J.; et al., 90f:18009
 Mader, A. (with Vinsonhaler, C.) Minimal Hausdorff topologies on abelian groups. 90h:20085
 Mikhalev, A. V. *see* Beidar, K. I.; et al., 90k:08007
 van Mill, Jan *see* Comfort, W. W., 90h:54002
 Moerdijk, I. Prodiscrete groups and Galois toposes. 90h:18014
 Nyikos, Peter J. The Cantor tree and the Fréchet-Urysohn property. 90j:54029
 Pultr, A. *see* Isbell, J.; et al., 90f:18009
 Rosický, J. *see* Isbell, J.; et al., 90f:18009
 Vinsonhaler, C. *see* Mader, A., 90h:20085

22A10 Analysis on general topological groups

- Fleischer, Isidore (with Traynor, Tim) Equicontinuity and uniform boundedness for noncommutative groups. 90m:22006
 Khadzhiiev, Dzh. (with Muminov, K.) Linearly reductive representations of topological groups. (Russian) 90m:22007
 Muminov, K. *see* Khadzhiiev, Dzh., 90m:22007
 Traynor, Tim *see* Fleischer, Isidore, 90m:22006

Items with secondary classifications in 22A10

- Frit, Roman Cauchy sequences in \mathcal{L} -groups. 90k:54063
 Grubb, D. J. U -sets in compact, 0-dimensional, metric groups. 90g:42052

- Onsewer, C. W. (with Su, Wei Yi) Homogeneous Besov spaces on locally compact Vilenkin groups. 90h:43004
 Su, Wei Yi. *see* Onsewer, C. W., 90h:43004
 Vodop'yanov, S. K. Potential theory on homogeneous groups. 90h:31010
 Wójtyński, Wojciech The enveloping group of a Lie algebra. 90h:22003

22A15 Structure of topological semigroups

- DeVun, E. E. (with Graham, George E.) Semigroups with commuting threads. 90e:22003
 Graham, George E. *see* DeVun, E. E., 90e:22003
 Helmer, Dietrich (with Isik, N.) Construction of right topological compactifications for discrete versions of subsemigroups of compact groups. 90f:22001
 Hofmann, Karl Heinrich (with Ruppert, Wolfgang A. F.) Foliations induced by congruences. 90g:22004
 Holmes, J. P. One parameter subsemigroups in locally compact differentiable semigroups. 90f:22002
 Hunter, R. P. On recognition and compactification. 90f:22004
 Isik, N. *see* Helmer, Dietrich, 90f:22001
 Magill, K. D., Jr. More on the countability index and the density index of $S(X)$. 90m:22008
 Pap, Endre On approximately and bounded homomorphisms on uniform commutative semigroups. (Serbo-Croatian summary) 90m:22009
 Rasolov, N. S. Approximation of a compact topological semigroup by continuous bicharacters. (Russian) 90c:22009
 Ruppert, Wolfgang A. F. *see* Hofmann, Karl Heinrich, 90g:22004

Items with secondary classifications in 22A15

- Craig, R. (with Páles, Z.) The associativity equation revisited. 90g:39019
 Császár, Á. u -isomorphic semigroups of continuous functions in locally compact spaces. 90a:54048
 Gass, Michael An order topology for finitely generated free monoids. 90g:20088
 Karateva, T. V. A semigroup of discontinuous evolution systems with respect to mixed summation. 90j:26003
 Lawson, Jimmie D. (with Mislove, Michael; Priestley, Hilary A.) Infinite antichains and duality theories. 90h:06029
 Li, Bo Yu (with Wang, Shang Zhi; Pouzet, Maurice) Topologies and ordered semigroups. 90g:54001
 Mislove, Michael *see* Lawson, Jimmie D.; et al., 90h:06029
 Páles, Z. *see* Craig, R., 90g:39019
 Pouzet, Maurice *see* Li, Bo Yu; et al., 90g:54001
 Priestley, Hilary A. *see* Lawson, Jimmie D.; et al., 90h:06029
 Ruppert, Wolfgang A. F. On open subsemigroups of connected groups. 90g:22003
 Skryagin, A. M. Finite-dimensional linear representations of compact regular semigroups. (Russian) 90h:22002
 Wang, Shang Zhi *see* Li, Bo Yu; et al., 90g:54001

22A20 Analysis on topological semigroups

- Lyubich, Yu. I. *see* Vũ Quốc Phong, 90e:22004
 Vũ Quốc Phong (with Lyubich, Yu. I.) A spectral criterion for asymptotic almost periodicity for uniformly continuous representations of abelian semigroups. (Russian) 90e:22004

Items with secondary classifications in 22A20

- Bingaard, Turben M. On the continuity of convolution semigroups. 90f:28021
 Sakai, Kouichi Remarks on support filter for invariant means. 90h:43002a
 — On amenable transformation semigroups with countable invariant means. 90h:43002b

22A25 Representations of general topological groups and semigroups

- Aroyan, É. P. Approximations of compact topological semigroups by real linear continuous functionals. (Russian. Armenian summary) 90h:22001
 Skryagin, A. M. On a problem of describing irreducible finite-dimensional linear representations of compact regular semigroups. (Russian) 90a:22001
 — Finite-dimensional linear representations of compact regular semigroups. (Russian) 90h:22002

Items with secondary classifications in 22A25

- Lyubich, Yu. I. *see* Vũ Quốc Phong, 90e:22004
 Rasolov, N. S. Approximation of compact topological semigroups by continuous bicharacters with respect to predicates. (Russian) 90j:20138
 Vũ Quốc Phong (with Lyubich, Yu. I.) A spectral criterion for asymptotic almost periodicity for uniformly continuous representations of abelian semigroups. (Russian) 90e:22004
 Yáñez, M. Francisca Existence of geometrical or weakly geometrical Gel'fand models for some finite groups. 90j:20025

22A26 Topological semilattices, lattices and applications [see also 06B30, 06F30]

- Cohen, Haskell Bands on trees. 90e:22005

Items with secondary classifications in 22A26

- Lawson, Jimmie D. (with Mislove, Michael; Priestley, Hilary A.) Infinite antichains and duality theories. 90h:06029
 Mislove, Michael *see* Lawson, Jimmie D.; et al., 90h:06029
 Priestley, Hilary A. *see* Lawson, Jimmie D.; et al., 90h:06029
 van de Vel, M. A Helly property of arcs. 90c:06008

22A30 Other topological algebraic systems and their representations

- Porter, Kathryn F. Set-set topologies and semitopological groups. 90j:22003

Items with secondary classifications in 22A30

- Cămpian, M. (with Cămpian, V.) Bitopological groups in A. A. Ivanov's meaning. 90g:22001
 Cămpian, V. *see* Cămpian, M., 90g:22001
 Kikkawa, Michihiko Projectivity of left loops on \mathbb{R}^* . 90i:53060
 Lawson, Jimmie D. Ordered manifolds, invariant cone fields, and semigroups. 90i:22014
 Uspenskii, V. V. The Mal'tsev operation on countably compact spaces. 90h:54029

22A99 None of the above, but in this section

- Cakalli, H. Conservative methods on complete topological groups. 90i:22005
 Johnstone, Peter T. A constructive "closed subgroup theorem" for localic groups and groupoids. (French summary) 90e:22006

Items with secondary classifications in 22A99

- Almeida, Jorge Residually finite congruences and quasi-regular subsets in uniform algebras. 90m:08001
 Aoki, Nobuo (with Moriyasu, K.) Expansive homeomorphisms of solenoidal groups. 90i:58148
 Choban, M. M. The theory of stable metrics. 90j:54037
 Fleischer, Isidore Convergence completion of partially ordered groups. 90e:06031
 Goodaire, Edgar G. (with Polcino Milles, César) Isomorphisms of integral alternative loop rings. 90h:20058
 Harmine, Mathias Sequential convergences on cyclically ordered groups. (Russian summary) 90e:06032
 Higgs, D. A. Remarks on duality for Σ -groups. I. Products and coproducts. (French summary) 90h:20084
 Jakubík, Ján Convergences and complete distributivity of lattice ordered groups. (Russian summary) 90d:06025
 Morgan, Christopher Charles Gradige (with Piccinini, Renzo A.) Conjugacy classes of groups of bundle automorphisms. 90i:55029
 Moriyasu, K. *see* Aoki, Nobuo, 90i:58148
 Pavel, Liliana Sur certaines propriétés des représentations induites des hypergroupes. [On certain properties of induced hypergroup representations] 90c:43005
 Piccinini, Renzo A. *see* Morgan, Christopher Charles Gradige, 90i:55029
 Polcino Milles, César *see* Goodaire, Edgar G., 90h:20058

22Bxx Locally compact abelian (LCA) groups

22B05 General properties and structure of LCA groups

- Akbarov, S. S. Vector fields on locally compact abelian groups. (Russian) 90c:22010
 Bognań, M. On embedding of locally compact abelian topological groups in Euclidean spaces. I. 90d:22003
 — On embedding of locally compact abelian topological groups in Euclidean spaces. II. 90d:22004
 Gall, I. M. Positive-definite functions on direct product (sum) of locally compact abelian groups. 90m:22010
 Hofmann, Karl Heinrich (with Wu, T. S.; Yang, Jeong Sheng) Equidimensional immersions of locally compact groups. 90a:22002
 Mukhin, Yu. N. (with Yakovenko, E. N.) A minimality condition for nonabelian subgroups in topological groups. (Russian) 90e:22007
 Székelyhidi, László On a problem of S. Mazur. 90h:22003
 Wu, T. S. *see* Hofmann, Karl Heinrich; et al., 90a:22002
 Yakovenko, E. N. *see* Mukhin, Yu. N., 90e:22007
 Yang, Jeong Sheng *see* Hofmann, Karl Heinrich; et al., 90a:22002

Items with secondary classifications in 22B05

- Friedrich, Jürgen (with Klotz, L.) On extensions of positive definite operator-valued functions. 90h:43005
 Klotz, L. *see* Friedrich, Jürgen, 90h:43005

22B10 Structure of group algebras of LCA groups

Items with secondary classifications in 22B10

- Ylisen, Karl Commutation properties of observables on locally compact abelian groups. 90d:81025

22B99 None of the above, but in this section

Items with secondary classifications in 22B99

- Atzmon, Aharon Irreducible representations of abelian groups. 90c:22017
 Berenstein, Carlos A. (with Gay, Roger) Le problème de Pompeii local. (English summary) [The local Pompeii problem] 90c:31005
 Gay, Roger *see* Berenstein, Carlos A., 90c:31005
 Salinger, D. L. (with Stegeman, J. D.) Spectral synthesis and difference spectra. 90a:43004
 Sasvári, Zoltán Definability of certain functions and the existence of eigenvectors of unitary operators in Pontryagin spaces. 90a:47090
 Stegeman, J. D. *see* Salinger, D. L., 90a:43004

22C05 Compact groups

- Backhouse, N. B. On the evaluation of the class operator for the rotation group. 90c:22011
- Bühlmeyer, M. Rajchman measures on compact groups. 90f:22003
- Helmer, Dietrich (with Pym, John) A short proof of $\beta(G \setminus \{1\}) = G$ for nonmetrizable compact groups G . 90k:22002
- Khukhro, E. I. A remark on periodic compact groups. 90m:22011
- Lahiri, B. K. Density and sparse set topology. 90a:22003
- Pym, John see Helmer, Dietrich, 90k:22002
- Rembieliński, J. A simple derivation of the class operator of the $SU(2)$ group. 90c:22012
- Turnwald, Gerhard Roots of Haar measure and topological Hamiltonian groups. 90m:22012
- Items with secondary classifications in 22C05
- Colzani, Leonardo (with Giulini, Saverio; Travaglini, Giancarlo) Sharp results for the mean summability of Fourier series on compact Lie groups. 90h:43003b
- Evens, Leonard (with Feshbach, Mark) Carlson's theorem on varieties and transfer. 90a:20108
- Fegan, H. D. (with Steer, B.) On the "strange formula" of Freudenthal and de Vries. 90h:17012
- Feshbach, Mark see Evens, Leonard, 90a:20108
- Giulini, Saverio (with Travaglini, Giancarlo) Central Fourier analysis for Lorentz spaces on compact Lie groups. 90h:43003a
- see also Colzani, Leonardo; et al., 90h:43003b
- Helmer, Dietrich (with Isik, N.) Construction of right topological compactifications for discrete versions of subgroups of compact groups. 90f:22001
- Isik, N. see Helmer, Dietrich, 90f:22001
- Lewkowicz, R. E. Harmonic functions on homogeneous spaces of commutator induced extensions of compact groups. 90e:43007
- Lion, Georges Une caractérisation des normes euclidiennes en dimension finie. [A characterization of Euclidean norms in finite dimension] 90c:46030
- Platonov, S. S. An analogue of Fejér sums for Fourier series on the group $SO(3)$. (Russian) 90d:43003
- Steer, B. see Fegan, H. D., 90h:17012
- Travaglini, Giancarlo see Giulini, Saverio, 90h:43003a and Colzani, Leonardo; et al., 90h:43003b

22Dxx Locally compact groups and their algebras

Items with secondary classifications in 22Dxx

- Doran, R. S. see Fell, J. M. G., 90c:46001 and 90c:46002
- Fell, J. M. G. (with Doran, R. S.) \star Representations of \ast -algebras, locally compact groups, and Banach \ast -algebraic bundles. Vol. 1. 90c:46001
- (with Doran, R. S.) \star Representations of \ast -algebras, locally compact groups, and Banach \ast -algebraic bundles. Vol. 2. 90c:46002

22D05 General properties and structure of locally compact groups

- Anker, Jean-Philippe A short proof of a classical covering lemma. 90c:22013
- Bagley, R. W. (with Wu, T. S.; Yang, Jeong Sheng) Locally compact groups: maximal compact subgroups and N -groups. 90b:22004
- (with Wu, T. S.; Yang, Jeong Sheng) Compact and compactly generated subgroups of locally compact groups. 90g:22005
- De Wilde, M. (with Mukila, M. P.) Relations between the topological properties of homomorphisms of topological locally compact groups and their pull-back on spaces of locally integrable functions. 90m:22013
- Helmer, Dietrich Structure of locally compact groups with metrizable connected components up to negligible subsets. 90c:22014
- Milnes, Paul Uniformity and uniformly continuous functions for locally compact groups. 90c:22006
- Mukhin, Yu. N. Topological groups with a Dedekind lattice of closed subgroups. (Russian) 90b:22005
- Mukila, M. P. see De Wilde, M., 90m:22013
- Panasnyk, S. P. Abelian limits of compact groups in a space of closed subgroups. (Russian) 90c:22015
- Piskunov, A. G. Cardinality of open σ -compact sets in the space of noncompact subgroups of a topological group. 90c:22016
- Wu, T. S. Automorphism groups of locally compact reductive groups. 90b:22006
- see also Bagley, R. W.; et al., 90b:22004 and 90g:22005
- Yang, Jeong Sheng see Bagley, R. W.; et al., 90b:22004 and 90g:22005

Items with secondary classifications in 22D05

- Hirschfeld, Joram The nonstandard treatment of Hilbert's fifth problem. 90m:22021
- Kishimoto, Akitaka Outer automorphism subgroups of a compact abelian ergodic action. 90c:46059
- Matsumoto, Kengo Strongly stable factors, crossed products and property Γ . 90f:46096
- Mukhina, Yu. N. \star Обобщенно коммутативные локально-компактные группы. (Russian) [Generalized-commutative locally compact groups] 90b:22001
- Sallinger, D. L. (with Stegeman, J. D.) Spectral synthesis and difference spectra. 90a:43004
- Stegeman, J. D. see Sallinger, D. L., 90a:43004
- Szwarc, Ryszard A short proof of the Grigorchuk-Cohen growth theorem. 90c:43002
- Wysocki, Janusz Characterization of amenable groups and the Littlewood functions on free groups. 90d:43001
- Yuan, Chuan Kuan Inner invariant means and the regular conjugation representation of $L^1(G)$. 90g:43001
- A property of locally compact groups. (Chinese. English summary) 90j:43002

22D10 Unitary representations of locally compact groups

- Bekka, Mohammed E. B. A characterization of locally compact amenable groups by means of tensor products. 90m:22014

- Funakoshi, Shunsuke (with Kawakami, Setoshi) On decompositions of induced cocycles. 90a:22004
- Gorbis, A. Z. (with Tempelman, A. A.) The averaging of almost periodic functions and of finite-dimensional unitary representations on free groups. 90m:22015
- Kaniuth, Eberhard On tensor products of representations of motion groups. 90m:22016
- On the conjugation representation of a locally compact group. 90k:22003
- Kawakami, Satoshi Representation theory of a locally compact group associated with a von Neumann algebra. 90c:22008
- see also Funakoshi, Shunsuke, 90a:22004
- Kirillov, A. A. Introduction to representation theory and noncommutative harmonic analysis. (Russian) 90a:22005
- Reiter, Hans Metaplectic groups and harmonic analysis. 90g:22006
- Tempelman, A. A. see Gorbis, A. Z., 90m:22015

Items with secondary classifications in 22D10

- Brägli, Kazimierz The twisted $SU(3)$ group. Irreducible \ast -representations of the C^\ast -algebra $C(S_3, U(3))$. 90c:22020
- (Burger, Marc) see de la Harpe, Pierre, 90m:22001
- Cao, Jian Min see Wang, Shun Jin; et al., 90j:81091
- Chou, Ching Almost periodic operators in $VN(G)$. 90d:43004
- Gauthier, J.-P. see Gourd, François; et al., (Not in MR)
- Gelfand, I. M. (with Graev, M. I.; Vershik, A. M.) The commutative model of the principal representation of the current group $SL(2, \mathbb{R})^T$ with respect to a unipotent subgroup. 90f:22024
- Gourd, François (with Gauthier, J.-P.; Younes, Hussein) Une méthode d'invariants de l'analyse harmonique en reconnaissance de formes. (English summary) [Invariants from harmonic analysis for pattern recognition] (Not in MR)
- Graev, M. I. see Gelfand, I. M.; et al., 90f:22024
- de la Harpe, Pierre (with Valette, Alain) La propriété (T) de Kazhdan pour les groupes localement compacts (avec un appendice de Marc Burger). (English summary) [Kazhdan's property (T) for locally compact groups (with an appendix by Marc Burger)] 90m:22001
- Howe, Roger E. (with Rosenberg, Jonathan) The unitary representation theory of $GL(n)$ of an infinite discrete field. 90m:22018
- Milnes, Paul (with Paterson, Alan L. T.) Ergodic sequences and a subspace of $B(G)$. 90c:43002
- Paterson, Alan L. T. see Milnes, Paul, 90c:43002
- Quesne, C. An $sl(4, \mathbb{R})$ Lie algebraic approach to the Bargmann functions and its application to the second Fock-Teller equation. 90g:22030
- Rosenberg, Jonathan see Howe, Roger E., 90m:22018
- Tadić, M. On limits of characters of irreducible unitary representations. (Serbo-Croatian summary) 90b:22019
- Valette, Alain see de la Harpe, Pierre, 90m:22001
- Vershik, A. M. see Gelfand, I. M.; et al., 90f:22024
- Wang, Shun Jin (with Cao, Jian Min; Weiguny, A.) Continuous-variable representation of dynamic groups in quantum systems. 90j:81091
- Weiguny, A. see Wang, Shun Jin; et al., 90j:81091
- Younes, Hussein see Gourd, François; et al., (Not in MR)

22D12 Other representations of locally compact groups

- Atzmon, Aharon Irreducible representations of abelian groups. 90c:22017
- Betori, W. (with Faraut, J.; Pagliacci, M.) An inversion formula for the Radon transform on trees. 90c:22004
- Faraut, J. see Betori, W.; et al., 90c:22004
- Karakhanian, M. I. Conditions for the completeness of a system of eigenvectors of a generalized normal operator. (Russian. English and Armenian summaries) 90f:22004
- Pagliacci, M. see Betori, W.; et al., 90c:22004
- Sutherland, Colin E. Cartan subalgebras of regular extensions of von Neumann algebras. 90c:22018
- Szwarc, Ryszard Matrix coefficients of irreducible representations of free products of groups. 90m:22017

Items with secondary classifications in 22D12

- Casati, P. Indecomposable representations of the group $SL(2, \mathbb{C})$ corresponding to the Gelfand-Ponomarev representations of its Lie algebra. I. The nonsingular case. (Italian and Russian summaries) 90c:22037
- Indecomposable representations of the group $SL(2, \mathbb{C})$ corresponding to the Gelfand-Ponomarev representations of its Lie algebra. II. The singular case. (Italian and Russian summaries) 90c:22038
- Hilla, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] 90e:22019
- Magyar, Zoltán On quotient measures and induced representations. 90b:22009
- Miyake, Katsuya (with Opolka, H.) A note on irreducible representations of profinite nilpotent groups. 90g:20037
- Opolka, H. see Miyake, Katsuya, 90g:20037
- Pavel, Liliana Représentations induites généralisées dans les espaces de Banach. [Generalized induced representations in Banach spaces] 90c:22022
- Price, John F. (with Sitaram, Alladi) Functions and their Fourier transforms with supports of finite measure for certain locally compact groups. 90c:43003
- Sitaram, Alladi see Price, John F., 90c:43003

22D15 Group algebras of locally compact groups

- Diarra, Bertin Autour des représentations holomorphes d'un groupe libre. [Concerning the holomorphic representations of a free group] 90f:22005

Items with secondary classifications in 22D15

- Derighetti, Antoine Convolveurs et projecteurs. [Convolution and projection operators]

90g:43001

De Wilde, M. (with Mukila, P.) Relations between the topological properties of homomorphisms of topological locally compact groups and their pull-back on spaces of locally integrable functions. 90m:22013

Kaniuth, Eberhard On the conjugation representation of a locally compact group. 90k:22003

Mukila, P. see De Wilde, M., 90m:22013

Romanelli, Silvia A Godement-type decomposition for positive definite functions. 90h:43007

Sallinger, D. L. (with Stegeman, J. D.) Spectral synthesis and difference spectra. 90a:43004
Stegeman, J. D. see Sallinger, D. L., 90a:43004

22D20 Representations of group algebras

Ludwig, Jean Minimal C^* -dense ideals and algebraically irreducible representations of the Schwartz algebra of a nilpotent Lie group. 90c:22019

Items with secondary classifications in 22D20

Kaniuth, Eberhard On the conjugation representation of a locally compact group. 90k:22003

Kawata, Shigeto Module correspondence in Auslander-Reiten quivers for finite groups. 90j:16008

Kumjian, Alex On equivariant sheaf cohomology and elementary C^* -bundles. 90k:46102

22D25 C^* -algebras and W^* -algebras arising from group representations [see also 46Lxx]

Boca, Florin (with Nijicá, Viorel) Combinatorial properties of groups and simple C^* -algebras with a unique trace. 90k:22007

Bregiel, Kazimierz The twisted $SU(3)$ group. Irreducible \ast -representations of the C^* -algebra $C(S, U(3))$. 90c:22020

Doplicher, Sergio (with Roberts, John E.) A new duality theory for compact groups. 90k:22005

de la Harpe, Pierre Groupes hyperboliques, algèbres d'opérateurs et un théorème de Jolissaint. (English summary) [Hyperbolic groups, operator algebras and Jolissaint's theorem] 90d:22005

Howe, Roger E. (with Rosenberg, Jonathan) The unitary representation theory of $GL(n)$ of an infinite discrete field. 90m:22018

Jolissaint, Paul K -theory of reduced C^* -algebras and rapidly decreasing functions on groups. 90j:22004

— Rapidly decreasing functions in reduced C^* -algebras of groups. 90d:22006

Kajiwara, Tetsuyoshi Fourier inversion formula for discrete nilpotent groups. 90e:22006

Kaniuth, Eberhard (with Taylor, Keith F.) Projections in C^* -algebras of nilpotent groups. 90k:22008

Nijicá, Viorel see Boca, Florin, 90k:22007

Paterson, Alan L. T. The class of locally compact groups G for which $C^*(G)$ is amenable. 90m:23019

Roberts, John E. see Doplicher, Sergio, 90k:22005

Rosenberg, Jonathan see Howe, Roger E., 90m:22018

Schwalbe, Daniel K -theory for discrete subgroups of the Lorentz groups. 90k:22006

Taylor, Keith F. see Kaniuth, Eberhard, 90k:22008

Items with secondary classifications in 22D25

Anderson, Joel (with Paschke, William) The rotation algebra. 90k:46126

Basj, Saad (with Skandalis, Georges) C^* -algèbres de Hopf et théorie de Kasparov équivariante. (English summary) [Hopf C^* -algebras and equivariant Kasparov theory] 90j:46061

Bekka, Mohammed E. B. A characterization of locally compact amenable groups by means of tensor products. 90m:22014

Benson, Chal (with Jenkins, Joe W.; Ratcliff, Gail) On Gelfand pairs associated with solvable Lie groups. 90m:22022

Bigonnet, Bruno Construction d'une C^* -algèbre associée à certains feuilletages de Stefan. (English summary) [A C^* -algebra associated to some foliations with singularities] 90k:46173

Bóna, Pável The dynamics of a class of quantum mean-field theories. 90e:82017

Bratteli, Ola (with Jørgensen, Palle E. T.) Conservative derivations and dissipative Laplacians. 90d:46089

Chou, Ching Almost periodic operators in $VN(G)$. 90d:43004

Connes, Alain Compact metric spaces, Fredholm modules, and hyperfiniteness. 90i:46124

Doplicher, Sergio (with Roberts, John E.) Compact group actions on C^* -algebras. 90k:46104

— (with Roberts, John E.) Endomorphisms of C^* -algebras, cross products and duality for compact groups. 90j:46058

Duncan, John (with Paterson, Alan L. T.) C^* -algebras of Clifford semigroups. 90e:46071

Echterhoff, Siegfried (with Kaniuth, Eberhard) Certain group extensions and twisted covariance algebras with generalized continuous trace. 90c:46083

Effros, Edward G. Why the circle is connected: an introduction to quantized topology. 90d:46084

Handelman, David E. (with Yin, Hong Sheng) Toeplitz extensions and automorphisms affiliated with linear characters of groups. 90a:46176

Hannabuss, K. C. KMS states for reduced groups, theta functions and the Powers-Størmer construction. 90k:46115

Jenkins, Joe W. see Benson, Chal; et al., 90m:22022

Jørgensen, Palle E. T. see Bratteli, Ola, 90d:46089

Kaniuth, Eberhard On the conjugation representation of a locally compact group. 90k:22003

— see also Echterhoff, Siegfried, 90c:46083

Kishimoto, Akitsugu Outer automorphism subgroups of a compact abelian ergodic action. 90e:46059

Lau, A. T. (with Wong, J. C. S.) Weakly almost periodic elements in $L_\infty(G)$ of a locally compact group. 90m:43006

Mauch, Niels Juel Conditional expectations and wandering operators for automorphic group actions. 90d:46090

Nest, Ryszard Cyclic cohomology of noncommutative tori. 90c:46089

Ostrovskii, V. L. (with Samoilenko, Yu. S.) Representation of \ast -algebras with two generators and polynomial relations. (Russian. English summary) 90k:46125

Packer, Judith A. (with Raeburn, Iain) Twisted crossed products of C^* -algebras. 90j:46097

Paschke, William see Anderson, Joel, 90k:46126

Paterson, Alan L. T. see Duncan, John, 90e:46071

Raeburn, Iain Induced C^* -algebras and a symmetric imprimitivity theorem. 90k:46144

— see also Packer, Judith A., 90j:46097

Ratcliff, Gail see Benson, Chal; et al., 90m:22022

Rieffel, Marc A. Continuous fields of C^* -algebras coming from group cocycles and actions. 90k:46120

Roberts, John E. see Doplicher, Sergio, 90k:46104 and 90j:46058

Robertson, A. G. Some abelian Banach algebras of operators on the matricial II_1 factor. 90k:46136

Robinson, P. L. The Fourier-Weyl algebra. 90e:46061

Rosenberg, Jonathan K -theory of group C^* -algebras, foliation C^* -algebras, and crossed products. 90a:46185

Samoilenko, Yu. S. see Ostrovskii, V. L., 90k:46125

Skandalis, Georges see Basj, Saad, 90j:46061

Sutherland, Colin E. Cartan subalgebras of regular extensions of von Neumann algebras. 90c:22018

— (with Takesaki, Masamichi) Actions of discrete amenable groups on injective factors of type III_λ , $\lambda \neq 1$. 90k:46142

Szymański, Wojciech Group C^* -algebras as algebras of "continuous functions" with noncommuting variables. 90k:46113

Takesaki, Masamichi see Sutherland, Colin E., 90k:46142

Tomiyama, Jun \ast Invitation to C^* -algebras and topological dynamics. 90a:46177

Walter, Martin E. On a new method for defining the norm of Fourier-Stieltjes algebras. 90e:43004

Wang, Xiaolu \star The C^* -algebras of a class of solvable Lie groups. 90j:46060

Wong, J. C. S. see Lau, A. T., 90m:43006

Yin, Hong Sheng Two C^* -algebras related to the discrete Heisenberg group. 90d:46099
— see also Handelman, David E., 90a:46176

22D30 Induced representations

All, S. Twareque (with De Bièvre, S.) Coherent states and quantization on homogeneous spaces. 90d:22007

Baggett, Larry On the notion of virtual amenability for groups. 90b:22007

De Bièvre, S. see All, S. Twareque, 90d:22007

Mackey, George W. Induced representations and the applications of harmonic analysis. 90c:22021

Magyar, Zoltán On quotient measures and induced representations. 90i:22009

Obata, Nobuaki Some remarks on induced representations of infinite discrete groups. 90h:22003

Pavel, Ljiljana Représentations induites généralisées dans les espaces de Banach. [Generalized induced representations in Banach spaces] 90c:22022

Items with secondary classifications in 22D30

Echterhoff, Siegfried (with Kaniuth, Eberhard) Certain group extensions and twisted covariance algebras with generalized continuous trace. 90c:46083

— On induced covariant systems. 90k:46105

Howe, Roger E. (with Rosenberg, Jonathan) The unitary representation theory of $GL(n)$ of an infinite discrete field. 90m:22018

Kaniuth, Eberhard On tensor products of representations of motion groups. 90m:22016
— see also Echterhoff, Siegfried, 90c:46083

Raeburn, Iain Induced C^* -algebras and a symmetric imprimitivity theorem. 90k:46144

Rosenberg, Jonathan see Howe, Roger E., 90m:22018

Šlovák, P. Systems of imprimitivity for the diffeomorphism group. II. 90a:22021

22D35 Duality theorems

Frík, Roman An example of a self-dual convergence group. (German, Russian and Slovak summaries) 90b:22008

Items with secondary classifications in 22D35

Doplicher, Sergio (with Roberts, John E.) Compact group actions on C^* -algebras. 90k:46104

— (with Roberts, John E.) Endomorphisms of C^* -algebras, cross products and duality for compact groups. 90j:46058

— (with Roberts, John E.) A new duality theory for compact groups. 90k:22005

Gérardin, Paul Groupes commutatifs et positivité. (English summary) [Commutative groups and positivity] 90f:43002

Grélaud, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] 90c:22015

Raeburn, Iain On crossed products and Takai duality. 90d:46093

Roberts, John E. see Doplicher, Sergio, 90k:46104; 90j:46058 and 90k:22005

Sutherland, Colin E. Cartan subalgebras of regular extensions of von Neumann algebras. 90c:22018

Vainerman, L. I. Nonunimodular quantized hypercomplex systems. (Russian. English summary) 90h:46099

Woronowicz, S. L. Tannaka-Krein duality for compact matrix pseudogroups. Twisted $SU(N)$ groups. 90c:22033

22D40 Ergodic theory on groups [see also 28Dxx and 43A60]

- Ager, O. N. Conjugacy of a group action to its inverse. (Russian) 90i:22010
 Fujiwara, Masako (with Hamachi, Toshihiro; Osikawa, Motosige) Flow equivalence of translations on compact metric abelian groups. 90b:22009
 Golodets, V. Ya. (with Sine'shchikov, S. D.) Regularization of actions of groups and groupoids on measured equivalence relations. 90f:22007
 Hamachi, Toshihiro see Fujiwara, Masako; et al., 90b:22009
 Ihrig, Edwin C. (with McMahon, Douglas; Wu, T. S.) Distal flows of nonabelian groups with finite codimension. 90c:22023
 McMahon, Douglas see Ihrig, Edwin C.; et al., 90c:22023
 Osikawa, Motosige see Fujiwara, Masako; et al., 90b:22009
 Sine'shchikov, S. D. see Golodets, V. Ya., 90f:22007
 Wu, T. S. see Ihrig, Edwin C.; et al., 90c:22023
 Yamagami, Shigeru On factor decomposition of an ergodic groupoid. 90b:22004

Items with secondary classifications in 22D40

- Adams, Scot Indecomposability of tree equivalence relations. 90m:28022
 Bratteli, Ola (with Elliott, George A.; Goodman, Fred; Jørgensen, Palle E. T.) Smooth Lie group actions on noncommutative tori. 90i:46116
 Elliott, George A. see Bratteli, Ola; et al., 90i:46116
 Fedorov, A. L. see Veksler, A. S., 90c:28032; 90i:28035 and Ruzhansky, B. A., 90b:28036
 Goodman, Fred see Bratteli, Ola; et al., 90i:46116
 Jørgensen, Palle E. T. see Bratteli, Ola; et al., 90i:46116
 King, Jonathan (with Weiss, Benjamin) A group rotation factor of a nonrigid rank-1 map. 90b:28019
 Longo, Roberto Restricting a compact action to an injective subfactor. 90f:46106
 Lo Schiavo, M. Generating new invariants and related ergodicity. (Italian summary) 90c:28034
 Milnes, Paul (with Paterson, Alan L. T.) Ergodic sequences and a subspace of $B(G)$. 90a:43002
 Paterson, Alan L. T. see Milnes, Paul, 90a:43002
 Ruzhansky, B. A. (with Fedorov, A. L.) Defining families of subpartitions of the trajectory partition of a countable ergodic group. (Russian) 90b:28036
 Schmidt, Klaus D. Strong ergodicity and quotients of equivalence relations. 90b:28026
 — Mixing automorphisms of compact groups and a theorem by Kurt Mahler. 90c:28031
 Veksler, A. S. (with Fedorov, A. L.) On the conjugacy of homomorphisms of locally compact groups with respect to the outer group of a measurable equivalence relation. 90c:28032
 — (with Fedorov, A. L.) Representation of an outer group of a measurable equivalence relation by a group of connected polymorphisms. (Russian) 90i:28035
 Weiss, Benjamin see King, Jonathan, 90b:28019
 Witte, Dave Rigidity of horospherical foliations. 90i:58092
 Zimmer, Robert J. Orbit equivalence, Lie groups, and foliations. 90a:28030

22D99 None of the above, but in this section

- Born, Eike Projective Lie algebra bases of a locally compact group and uniform differentiability. 90f:22008

Items with secondary classifications in 22D99

- Friedrich, Jürgen (with Schmüdgen, Konrad) n -positivity of unbounded \ast -representations. 90j:47055
 Lattermann, Stefan \ast Tannakakategorien. (German) [Tannakian categories] 90k:18009
 Ruppert, Wolfgang A. F. On open subsemigroups of connected groups. 90g:22003
 Schmüdgen, Konrad see Friedrich, Jürgen, 90j:47055
 Woess, Wolfgang Amenable group actions on infinite graphs. 90m:43003

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}**Items with secondary classifications in 22Exx**

- Doran, R. S. see Fell, J. M. G., 90c:46001 and 90c:46002
 Fell, J. M. G. (with Doran, R. S.) \ast Representations of \ast -algebras, locally compact groups, and Banach \ast -algebraic bundles. Vol. 1. 90c:46001
 — (with Doran, R. S.) \ast Representations of \ast -algebras, locally compact groups, and Banach \ast -algebraic bundles. Vol. 2. 90c:46002

22E05 Local Lie groups [see also 34-XX, 35-XX, 58H05]

- Almeida, P. A direct approach to one variable noncommutative calculus. 90e:22009
 Baranik, L. F. Invariants of subgroups of the extended Poincaré group $\tilde{P}(1, n)$. (Russian) 90b:22005
 Chak'rov, Edl Finite-dimensional extensions of Galilei groups and some of their extensions. (Bulgarian. English summary) 90g:22007
 Jing, Si Cong (with Ruan, Tu Nan) Generalized Baker-Hausdorff formula and its application. 90m:22020
 Kotelnikov, G. A. Invariance of Maxwell homogeneous equations relative to the Galilei transformations. 90b:22010
 Ruan, Tu Nan see Jing, Si Cong, 90m:22020
 Rund, Hanno Differential-geometric structures associated with families of r -parameter point transformations. 90b:22006
 Thompson, Robert C. Convergence proof for Goldberg's exponential series. 90i:22011
 Tu, Gui Zhang An elementary proof of the Campbell-Hausdorff formula. (Chinese summary) 90a:22006

Items with secondary classifications in 22E05

- Almeida, P. Noncommutative Schwarz lemmata. 90a:58017

- Anderson, Mitch Strongly differentiable monoids with smooth boundary. 90j:58005
 Batalin, I. A. (with Vilkovskii, G. A.) Closure of the gauge algebra, generalized Lie equations, and Feynman rules. 90d:81084
 Boyer, C. P. (with Winternitz, P.) Symmetries of the self-dual Einstein equations. I. The infinite-dimensional symmetry group and its low-dimensional subgroups. 90j:83049
 Bruhn, B. Lie series and canonical transformations in complex phase space. 90c:81055
 Chebotarevskii, B. D. see Duzhin, S. V., 90d:00005
 Dorodnitsyn, V. A. (with Elenin, G. G.) Symmetry of nonlinear phenomena. (Russian) 90m:58230
 — The Newton group and commutativity properties of Lie-Bäcklund operators in difference spaces. (Russian) 90m:58231
 Duzhin, S. V. (with Chebotarevskii, B. D.) \ast От орнаментов до дифференциальных уравнений. (Russian) [From ornaments to differential equations] 90d:00005
 Egorchenko, I. A. see Fushchich, V. I., 90i:35013
 Elenin, G. G. see Dorodnitsyn, V. A., 90m:58230
 Fedorchuk, I. M. Reduction of the relativistic Hamilton equation. (Russian) 90g:35136
 Fushchich, V. I. (with Zhdanov, R. Z.) Symmetry and exact solutions of the nonlinear Dirac equation. 90b:58277
 — (with Egorchenko, I. A.) Differential invariants of the Galilei algebra. (Russian. English summary) 90i:35013
 — (with Zhdanov, R. Z.) Symmetry and exact solutions of nonlinear spinor equations. 90f:81046
 Jaulent, Marcel (with Manna, Miguel A.; Martínez Alonso, Luis) Multiseries Lie groups and symplectic modules for characterizing and solving integrable models. 90b:58041
 Katzin, Gerald H. (with Levine, Jack) Characteristic functional structure of infinitesimal symmetry mappings of classical dynamical systems. IV. Classical (velocity-independent) mappings of second-order differential equations. 90b:58073
 Leach, P. G. L. see Mahomed, F. M., 90i:58192
 Levine, Jack see Katzin, Gerald H., 90b:58073
 Mahomed, F. M. (with Leach, P. G. L.) Equivalence classes of differential equations. 90i:58192
 Manna, Miguel A. see Jaulent, Marcel; et al., 90b:58041
 Martínez Alonso, Luis see Jaulent, Marcel; et al., 90b:58041
 Olver, Peter J. \ast Приложения групп Ли к дифференциальным уравнениям. (Russian) [Applications of Lie groups to differential equations] 90i:58163
 Pohle, H.-J. (with Wolf, Thomas Otto) Automatic determination of dynamical symmetries of ordinary differential equations. (German summary) (Not in MR)
 Segeda, Yu. N. Invariant solutions of the multidimensional Liouville equation. (Russian. English summary) 90d:35188
 (Shabat, A. B.) see Olver, Peter J., 90i:58163
 (Shcherbak, I. G.) see Olver, Peter J., 90i:58163
 Termini, Domenica Infinitesimal group analysis for the Riemann system. (Italian summary) 90b:35148
 Vilkovskii, G. A. see Batalin, I. A., 90d:81084
 Winternitz, P. see Boyer, C. P., 90j:83049
 Wolf, Thomas Otto see Pohle, H.-J., (Not in MR)
 Zhdanov, R. Z. see Fushchich, V. I., 90b:58277 and 90f:81046

22E10 General properties and structure of complex Lie groups [see also 32M05]

- Mirman, R. Complex groups, quantum mechanics, and the dimension and reality of space. 90i:22012
 Pianzola, A. (with Weiss, Alfred R.) Monstrous E_{10} 's and a generalization of a theorem of L. Solomon. 90k:22007
 Weiss, Alfred R. see Pianzola, A., 90k:22007

Items with secondary classifications in 22E10

- Bose, Asok Dynkin's method of computing the terms of the Baker-Campbell-Hausdorff series. 90b:17050
 Finley, J. D., III see Plebański, J. F., 90f:22011
 Plebański, J. F. (with Finley, J. D., III) On linear unitary transformations of two canonical variables. 90f:22011

22E15 General properties and structure of real Lie groups

- Adeleke, S. A. Discontinuous automorphisms of the proper Galilei and Euclidean groups. 90e:22009
 Finley, J. D., III see Plebański, J. F., 90f:22011
 Gichev, V. M. Invariant orderings in solvable Lie groups. 90i:22013
 Gorbatsevich, V. V. Plesio-compact homogeneous spaces. 90f:22010
 Hebda, James J. (with Moylan, Patrick Joseph) Recent results on group decompositions and some applications. 90j:22005
 Hirschfeld, Joram The nonstandard treatment of Hilbert's fifth problem. 90m:22021
 Lawson, Jimmie D. Ordered manifolds, invariant cone fields, and semigroups. 90i:22014
 Moskalenko, Yu. D. Connected subgroups of the group $O(3, 3)$. (Russian) 90g:22008
 Moylan, Patrick Joseph see Hebda, James J., 90j:22005
 Mukunda, N. see Simon, Rajiah; et al., 90h:22007
 Murakami, Shingo Exceptional simple Lie groups and related topics in recent differential geometry. 90g:22009
 Onisich, A. L. On the centre of a transitive semisimple Lie group. 90e:22010
 Plebański, J. F. (with Finley, J. D., III) On linear unitary transformations of two canonical variables. 90f:22011
 Podolskii, M. N. A class of transformations of Lie groups. 90k:22008
 Simon, Rajiah (with Mukunda, N.; Sudarshan, E. C. G.) The theory of screws: a new geometric representation for the group $SU(1, 1)$. 90h:22007
 Strambach, Karl Partitions of Lie groups and algebraic groups. 90a:22007
 Sudarshan, E. C. G. see Simon, Rajiah; et al., 90h:22007

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- Chak'rov, Edil Finite-dimensional extensions of Galilei groups and some of their extensions. (Bulgarian. English summary) 90g:22007
- Dotti Miatello, Isabel G. Transitive group actions and Ricci curvature properties. 90a:53055
- Hilgert, Joachim (with Hofmann, Karl Heinrich) Compactly embedded Cartan algebras and invariant cones in Lie algebras. 90f:17008
- Hofmann, Karl Heinrich see Hilgert, Joachim, 90f:17008
- Jiang, Jia Fu On the classification of the real simple Lie algebras D_4 by inner conjugation. (Chinese. English summary) 90h:17013
- Khosrovyan, O. M. Homogeneous spaces with two ends and positive Euler characteristics. 90c:53122
- Lichnerowicz, André (with Medina Peres, Alberto) On Lie groups with left-invariant symplectic or Kählerian structures. 90j:53067
- Lin, James P. Lie groups from a homotopy point of view. 90d:55012
- Liu, Jun² (with Polchinski, Joseph) Renormalization of the Möbius volume. 90c:81128
- Medina Peres, Alberto see Lichnerowicz, André, 90j:53067
- Polchinski, Joseph see Liu, Jun², 90c:81128
- Teufel, Eberhard Kinematische Berührformeln in Riemannschen homogenen Räumen. [Kinematic tangent formulas in Riemannian homogeneous spaces] 90g:53083
- Vassallo, Salvatore The subgroups of the affine transformation group of the space A^n . (Italian. French summary) 90i:53013
- Wa, T. S. Automorphism groups of locally compact reductive groups. 90b:22006

22E20 General properties and structure of other Lie groups

- Gottlieb, Sławomir Lie algebra structure on the set of all one-parameter subgroups of certain metric groups. (Russian summary) 90e:22011

Items with secondary classifications in 22E20

- Duković, Dragomir Z. An elementary proof of the structure theorem for connected solvable affine algebraic groups. 90a:20087
- Manin, Yu. I. Reflections on arithmetical physics. 90m:11195

22E25 Nilpotent and solvable Lie groups

- Benson, Chal (with Jenkins, Joe W.; Ratcliff, Gail) On Gelfand pairs associated with solvable Lie groups. 90m:22022
- Bonnet, Pierre Paramétrisation du dual d'une algèbre de Lie nilpotente. [Parametrization of the dual of a nilpotent Lie algebra] 90d:22008
- Currey, Bradley N. (with Penney, Richard C.) The structure of the space of co-adjoint orbits of a completely solvable Lie group. 90f:22012
- Ivan, Gh. Quasisolvable Lie groups. (Romanian summary) 90g:22010
- Jenkins, Joe W. A characterization of bi-invariant Schwartz space multipliers on nilpotent Lie groups. 90d:22009
- see also Benson, Chal; et al., 90m:22022
- Pedersen, Niels Vigand On the symplectic structure of coadjoint orbits of (solvable) Lie groups and applications. I. 90e:22024
- Penney, Richard C. see Currey, Bradley N., 90f:22012
- Ratcliff, Gail see Benson, Chal; et al., 90m:22022

Items with secondary classifications in 22E25

- Abdrakhimova, N. R. (with Guts, A. K.; Shalanova, N. L.) A synthetic theory of affine Lorentz manifolds, and ordered Lie groups. 90d:53076
- An, You Shan (with Luo, Xue Bo) A fundamental solution for the operator \mathcal{L}_μ on the Heisenberg group H^n . (Chinese) 90k:58258
- Anderson, Joel (with Paschke, William) The rotation algebra. 90k:46126
- Benson, Chal (with Gordon, Carolyn S.) Kähler and symplectic structures on nilmanifolds. 90b:53042
- (with Gordon, Carolyn S.) Kähler structures on compact solvmanifolds. 90g:53079
- Cannon, J. W. (with Floyd, W. J.; Grayson, M. A.; Thurston, W. P.) Solvgroups are not almost convex. 90j:57007
- du Cloux, Fokko Représentations de longueur finie des groupes de Lie résolubles. [Representations of finite length of solvable Lie groups] 90m:22023
- Dziubański, Jacek (with Hulanicki, Andrzej) On semigroups generated by left-invariant positive differential operators on nilpotent Lie groups. 90j:22008
- Echterhoff, Siegfried (with Kaniuth, Eberhard) Certain group extensions and twisted covariance algebras with generalized continuous trace. 90c:46083
- Floyd, W. J. see Cannon, J. W.; et al., 90j:57007
- Ghannat, Patrick Almost Lie groups of type R^n . 90k:53074
- Ghys, Étienne see Hector, Gilbert; et al., 90g:57024
- Gordon, Carolyn S. see Benson, Chal, 90b:53042 and 90g:53079
- Grayson, M. A. see Cannon, J. W.; et al., 90j:57007
- Guts, A. K. see Abdrakhimova, N. R.; et al., 90d:53076
- Heibisch, Waldemar Sharp pointwise estimate for the kernels of the semigroup generated by sums of even powers of vector fields on homogeneous groups. 90k:58259
- Hector, Gilbert (with Ghys, Étienne; Moriyama, Yoichi) On codimension one nilfoliations and a theorem of Malcev. 90g:57024
- Hulanicki, Andrzej see Dziubański, Jacek, 90j:22008
- Jenkins, Joe W. Bi-invariant Schwartz multipliers and local solvability on nilpotent Lie groups. 90d:22010
- Kaniuth, Eberhard see Echterhoff, Siegfried, 90c:46083
- Krasil'nikov, A. N. (with Shmel'kin, A. L.) On the laws of finite-dimensional representations of solvable Lie algebras and groups. 90b:17020
- Li, Zhi Bin (with Luo, Xue Bo) A singularity analysis for fundamental solutions of generalized wave operators on the Heisenberg group. (Chinese. English summary) 90k:58221
- Luo, Xue Bo see Li, Zhi Bin, 90k:58221 and An, You Shan, 90k:58258

- Mitropol'skii, Yu. A. (with Prikarpat'skii, A. K.; Samoilenko, V. Gr.) An algebraic scheme for discrete approximations of linear and nonlinear dynamical systems of mathematical physics. 90a:58021
- Moriyama, Yoichi see Hector, Gilbert; et al., 90g:57024
- Paschke, William see Anderson, Joel, 90k:46126
- Price, John F. (with Sitaram, Alladi) Some uncertainty principles in abstract harmonic analysis. 90c:43006
- Prikarpat'skii, A. K. see Mitropol'skii, Yu. A.; et al., 90a:58021
- Samoilenko, V. Gr. see Mitropol'skii, Yu. A.; et al., 90a:58021
- Schempp, Walter The diamond solvable Lie group and fiber optical communication systems. (see 90i:81003)
- Extensions of the Heisenberg group and coaxial coupling of transverse eigenmodes. 90i:78032
- Shalanova, N. L. see Abdrakhimova, N. R.; et al., 90d:53076
- Shmel'kin, A. L. see Krasil'nikov, A. N., 90b:17020
- Sitaram, Alladi see Price, John F., 90c:43006
- Thurston, W. P. see Cannon, J. W.; et al., 90j:57007
- Yin, Hong Sheng Two C^* -algebras related to the discrete Heisenberg group. 90d:46099

22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-Type I representations, etc.)

- Chen, Sui Yang see Fu, Chu Li, 90c:22025
- du Cloux, Fokko Représentations de longueur finie des groupes de Lie résolubles. [Representations of finite length of solvable Lie groups] 90m:22023
- Corwin, Lawrence (with Greenleaf, Frederick P.) A canonical approach to multiplicity formulas for induced and restricted representations of nilpotent Lie groups. 90b:22011b
- (with Greenleaf, Frederick P.) Spectrum and multiplicities for restrictions of unitary representations in nilpotent Lie groups. 90b:22011a
- Cowling, Michael (with Haagerup, Uffe) Completely bounded multipliers of the Fourier algebra of a simple Lie group of real rank one. 90b:22008
- Fu, Chu Li (with Chen, Sui Yang) Irreducible unitary representations for a class of generalized Heisenberg groups, and their applications. (Chinese. English summary) 90c:22025
- Greenleaf, Frederick P. see Corwin, Lawrence, 90b:22011a and 90b:22011b
- Haagerup, Uffe see Cowling, Michael, 90b:22008
- Jørgensen, Palle E. T. Positive definite functions on the Heisenberg group. 90m:22024
- Lipsman, Ronald L. Orbital parameters for induced and restricted representations. 90c:22008
- The Corwin-Greenleaf parity result fails for completely solvable Lie groups. 90j:22006
- Pedersen, Niels Vigand Geometric quantization and the universal enveloping algebra of a nilpotent Lie group. 90c:22026
- Wildberger, N. J. Convexity and unitary representations of nilpotent Lie groups. 90j:22007

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- Chumak, M. L. Multiplicities of the spectrum of representations connected with integrable G -invariant Hamiltonian systems. 90b:58036
- Currey, Bradley N. (with Penney, Richard C.) The structure of the space of co-adjoint orbits of a completely solvable Lie group. 90f:22012
- De Bievre, S. Coherent states over symplectic homogeneous spaces. 90m:22032
- Grélaud, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] 90c:22015
- Jenkins, Joe W. A characterization of bi-invariant Schwartz space multipliers on nilpotent Lie groups. 90d:22009
- Penney, Richard C. see Currey, Bradley N., 90f:22012
- Wiegmann, P. B. Multivalued functionals and geometrical approach for quantization of relativistic particles and strings. 90k:58080

22E30 Analysis on real and complex Lie groups [see also 33A75, 43-XX]

- Alexopoulos, Georges Quelques propriétés des fonctions harmoniques positives sur les groupes de Lie résolubles à croissance polynomiale du volume. (English summary) [Some properties of positive harmonic functions on solvable Lie groups of polynomial growth] 90c:22027
- Bump, Daniel (with Friedberg, Solomon) On Mellin transforms of unramified Whittaker functions on $GL(3, C)$. 90k:22009
- Chaabouni-Sellami, Amel Relations entre les fonctions moyennes sur un espace préhomogène. (English summary) [Relations among mean functions on a prehomogeneous space] 90k:22010
- Chen, Jie Cheng Heat kernels on normal Lie groups. 90f:22013
- Damek, Ewa An area theorem for a one-dimensional semidirect extension of homogeneous groups. 90c:22028
- Debiard, Amédée (with Gaveau, Bernard) Fonctions hypergéométriques et fonctions sphériques pour un système de racines BC de rang 2. (English summary) [Hypergeometric functions and spherical functions for a root system of type BC and rank 2] 90a:22009
- (with Gaveau, Bernard) Échelles hypergéométriques et polynômes sphériques des systèmes de racines BC de rang deux. (English summary) [Hypergeometric ladders and spherical polynomials of root systems of type BC and rank 2] 90g:22011
- Dourashvili, Peter A Poisson-Plancherel formula for the universal covering group with Lie algebra of type B_n . 90g:22012
- Dziubański, Jacek (with Hulanicki, Andrzej) On semigroups generated by left-invariant positive differential operators on nilpotent Lie groups. 90j:22008
- El Hussein, Kahar Opérateurs différentiels invariants sur les groupes de déplacements. (English summary) [Differential operators that are invariant under motion groups] 90c:22029
- Faraut, J. (with Korányi, A.) Fonctions hypergéométriques associées aux cônes symétriques. (English summary) [Hypergeometric functions associated with symmetric

- cones] 90a:22010
- Friedberg, Solomon *see* Bump, Daniel, 90k:22009
- Gaveau, Bernard *see* Debiard, Amédée, 90a:22009 and 90g:22011
- Gelfand, I. M. (with Zelevinskii, A. V.; Kapranov, M. M.) Hypergeometric functions and toric varieties. 90m:22025
- *see also* Vasil'ev, V. A.; et al., 90b:22014
- Gindikin, S. G. Horospheres and twistors. 90g:22013
- Grélaud, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] 90i:22015
- Gutkin, E. Representations of Hecke algebras. 90c:22030
- Harinck, Pascale Fonctions généralisées sphériques induites sur G_C/G_R . (English summary) [Induced spherical generalized functions on G_C/G_R] 90m:22026
- Howe, Roger E. The oscillator semigroup. 90f:22014
- Hulanicki, Andrzej *see* Dziubański, Jacek, 90j:22008
- Jenkins, Joe W. Bi-invariant Schwartz multipliers and local solvability on nilpotent Lie groups. 90d:22010
- Jørgensen, Palle E. T. Second-order right-invariant partial differential equations on a Lie group. 90j:22009
- Kamoun, Lotfi Distributions coniques associées à $SL(3, R)$. (English summary) [Conical distributions associated to $SL(3, R)$] 90b:22012
- Kapranov, M. M. *see* Gelfand, I. M.; et al., 90m:22025
- Kawazoe, Takeshi (with Miyazaki, Hiroshi) Fourier series with nonnegative coefficients on compact semisimple Lie groups. 90i:22016
- Koranyi, A. *see* Faraut, J., 90a:22010
- Krawczyk, Jarosław Hardy spaces on $SU(2)$. 90b:22013
- Li, Am Gil (with Ma'tsev, V. M.) ★ Гармонические функции на группе $SU(n)$. (Russian) [Harmonic functions on the group $SU(n)$] 90g:22014
- Lisiecki, Wojciech Blattner-Kostant-Sternberg pairing and Fourier transform on symmetric spaces. 90g:22015
- Ma'tsev, V. M. *see* Li, Am Gil, 90g:22014
- Miyazaki, Hiroshi *see* Kawazoe, Takeshi, 90i:22016
- Müller, Detlef Horst On Riesz means of eigenfunction expansions for the Kohn-Laplacian. 90i:22017
- Peetre, Jaak Some calculations related to Fock space and the Shale-Weil representation. 90i:22012
- Ricci, Fulvio (with Stein, E. M.) Harmonic analysis on nilpotent groups and singular integrals. III. Fractional integration along manifolds. 90m:22027
- Saloff-Coste, Laurent Inégalités de Sobolev produit sur les groupes de Lie nilpotents. [Product Sobolev inequalities on nilpotent Lie groups] 90m:22028
- Sekiguchi, Jirō The orders of invariant eigendistributions. 90g:22016
- Shahshahani, Mehrdad Poincaré inequality, uncertainty principle, and scattering theory on symmetric spaces. 90g:22017
- Solomatin, L. E. Fundamental solutions of invariant differential equations on symmetric spaces. (Russian) 90a:22011
- Sommen, F. Spingroups and spherical means. III. 90i:22018
- Stein, E. M. *see* Ricci, Fulvio, 90m:22027
- Varadarajan, V. S. The states of the character ring of a compact group. 90f:22015
- Vasil'ev, V. A. (with Gelfand, I. M.; Zelevinskii, A. V.) General hypergeometric functions on complex Grassmannians. (Russian) 90b:22014
- Zelevinskii, A. V. *see* Vasil'ev, V. A.; et al., 90b:22014 and Gelfand, I. M.; et al., 90m:22025
- Zhu, Fu Liu Riesz transformations on a noncompact symmetric space of rank one. (Chinese) 90m:22029
- Items with secondary classifications in 22E30
- Agranovskii, M. L. Möbius spaces of functions on the Shilov boundaries of classical domains of tube type. 90c:32048
- Airapetyan, R. G. (with Graev, M. I.; Graev, M. M.; Oganesyan, G. R.) The Plancherel formula that is connected with an admissible complex of straight lines in CP^3 . 90j:53093
- An, You Shan An explicit fundamental solution for the operator \mathcal{L}_0 on the Heisenberg group H_n . (Chinese. English summary) 90f:58164
- (with Luo, Xue Bo) A fundamental solution for the operator \mathcal{L}_0^n on the Heisenberg group H^n . (Chinese) 90k:58258
- Anker, Jean-Philippe Le noyau de la chaleur sur les espaces symétriques $U(p, q)/U(p) \times U(q)$. [The heat kernel on the symmetric spaces $U(p, q)/U(p) \times U(q)$] 90f:58168
- Arnal, D. (with Cahen, M.; Gutt, S.) Exponential and holomorphic discrete series. 90k:22019
- Bakry, Dominique The Riesz transforms associated with second order differential operators. 90c:58186
- van den Ban, E. P. The principal series for a reductive symmetric space. I. H -fixed distribution vectors. 90a:22016
- Bonnet, Pierre Paramétrisation du dual d'une algèbre de Lie nilpotente. [Parametrization of the dual of a nilpotent Lie algebra] 90d:22008
- Cahen, M. *see* Arnal, D.; et al., 90k:22019
- Chen, Guang Xiao A note on the spherical Fourier transform and invariant differential operators on the matrix hyperbolic space \mathcal{H}_r . (Chinese) 90f:43012
- Fundamental solution of Poisson equation in classical Cartan domain \mathcal{H}_r^+ . 90g:43006
- Christ, Michael On the regularity of inverses of singular integral operators. 90c:42022
- Inversion in some algebras of singular integral operators. 90j:42041
- Colzani, Leonardo (with Giulini, Saverio; Travaglini, Giancarlo) Sharp results for the mean summability of Fourier series on compact Lie groups. 90h:43003b
- Cowling, Michael (with Meaney, Christopher) On a maximal function on compact Lie groups. 90a:43005
- Cui, Shang Bin Local fundamental solutions and local solvability of a class of left invariant differential operators on the Heisenberg group. (Chinese. English summary) 90f:58190
- Cummins, Thomas E. A pseudodifferential calculus associated to 3-step nilpotent groups. 90c:58176
- Dani, S. G. (with McCrudden, M.) On the factor sets of measures and local tightness of convolution semigroups over Lie groups. 90a:43005
- Drury, S. W. L^p estimates for certain generalizations of k -plane transforms. 90e:44002
- Faiziev, V. A. Pseudocharacters on free groups and on some group constructions. 90a:20047
- Fan, Da Shan (with Xie, Jia Hai) A weak inequality for maximal Fejér operators on symplectic groups. (Chinese) 90m:43027
- Faraut, J. Formule du binôme généralisée. [The generalized binomial formula] 90k:43016
- Gelsler, Michael H. G. Besov spaces on compact Lie groups. 90a:46072
- Gelfand, I. M. (with Zelevinskii, A. V.; Kapranov, M. M.) A -discriminants and Cayley-Koszul complexes. 90k:14054
- (with Zelevinskii, A. V.; Kapranov, M. M.) Newton polyhedra of principal A -determinants. 90k:14055
- Giulini, Saverio (with Travaglini, Giancarlo) Central Fourier analysis for Lorentz spaces on compact Lie groups. 90h:43003a
- *see also* Colzani, Leonardo; et al., 90h:43003b
- Głowacki, Paweł The Rockland condition for nondifferential convolution operators. 90k:43002
- Graev, M. I. *see* Airapetyan, R. G.; et al., 90j:53093
- Graev, M. M. *see* Airapetyan, R. G.; et al., 90j:53093
- Gustafson, Robert A. Multilateral summation theorems for ordinary and basic hypergeometric series in $U(n)$. 90c:33015
- Gutt, S. *see* Arnal, D.; et al., 90k:22019
- Hebisch, Waldemar Sharp pointwise estimate for the kernels of the semigroup generated by sums of even powers of vector fields on homogeneous groups. 90h:58259
- Hueber, H. A note on the computation of Green functions for sub-Laplacians on Lie algebras of type H . 90c:58177
- (with Müller, Detlef Horst) Asymptotics for some Green kernels on the Heisenberg group and the Martin boundary. 90h:58257
- Janssen, A. J. E. M. Wigner weight functions and Weyl symbols of nonnegative definite linear operators. 90j:81050
- Kapranov, M. M. *see* Gelfand, I. M.; et al., 90k:14054 and 90k:14055
- Kirillov, A. A. Introduction to representation theory and noncommutative harmonic analysis. (Russian) 90a:22005
- Koornwinder, Tom H. Group theoretic interpretations of Askey's scheme of hypergeometric orthogonal polynomials. 90b:33024
- Kostant, Bertram (with Sternberg, Shlomo) The Schwartzian [Schwarzian] derivative and the conformal geometry of the Lorentz hyperboloid. 90j:53015
- Lemarie, Pierre Gilles Base d'ondelettes sur les groupes de Lie stratifiés. (English summary) [Basis of wavelets on stratified Lie groups] 90j:42066
- Li, Zhi Bin (with Luo, Xue Bo) A singularity analysis for fundamental solutions of generalized wave operators on the Heisenberg group. (Chinese. English summary) 90k:58221
- Luo, Xue Bo *see* Li, Zhi Bin, 90k:58221 and An, You Shan, 90k:58258
- Matsumoto, Hisayoshi Whittaker vectors and the Goodman-Wallach operators. 90d:22018
- McCrudden, M. *see* Dani, S. G., 90c:33015
- Meaney, Christopher *see* Cowling, Michael, 90a:43005
- Mickelsson, J. (with Niederle, Jiri) Harmonic analysis on coset spaces. 90c:22036
- Miller, Willard, Jr. Symmetry techniques and orthogonality for q -series. 90k:33005
- Müller, Detlef Horst *see* Hueber, H., 90h:58257
- Murty, M. Ram An introduction to Selberg's trace formula. 90i:11080
- Niederle, Jiri *see* Mickelsson, J., 90c:22036
- Oganesyan, G. R. *see* Airapetyan, R. G.; et al., 90j:53093
- Onneweer, C. W. (with Su, Wei Yi) Homogeneous Besov spaces on locally compact Vilenkin groups. 90b:43004
- Osborne, M. Scott (with Warner, Garth) On the Dini calculus. II. 90h:42018
- Oshima, Toshio A method of harmonic analysis on semisimple symmetric spaces. 90g:43007
- Pesenson, I. Z. Best approximations in a space of the representation of a Lie group. 90c:41071
- Peters, J. V. The Radon transform on $L^p(\mathbb{R}^n)$. (Not in MR)
- Pintsov, David A. Invariant pattern recognition, symmetry, and Radon transforms. 90m:92100
- Platonov, S. S. An analogue of Fejér sums for Fourier series on the group $SO(3)$. (Russian) 90d:43003
- Invariant subspaces in some function spaces on symmetric spaces of rank 1. 90b:22022
- Price, John F. (with Sitaram, Alladi) Some uncertainty principles in abstract harmonic analysis. 90c:43006
- (with Sitaram, Alladi) Functions and their Fourier transforms with supports of finite measure for certain locally compact groups. 90c:43003
- Ricci, Fulvio (with Sjögren, Peter) Two-parameter maximal functions in the Heisenberg group. 90d:43006
- Richards, Donald St. P. Analogs and extensions of Selberg's integral. 90k:33003
- Rogov, V. B. K. The Fourier-Mellin-Whittaker transform on horospheres of homogeneous pseudo-Riemannian symmetric spaces of rank 1. 90f:43010
- Saloff-Coste, Laurent Sur la décroissance des puissances de convolution sur les groupes. (English summary) [On the decay of convolution powers on groups] 90j:43005
- Sitaram, Alladi *see* Price, John F., 90c:43006 and 90c:43003
- Sjögren, Peter Asymptotic behaviour of generalized Poisson integrals in rank one symmetric spaces and in trees. 90h:22018
- *see also* Ricci, Fulvio, 90d:43006
- Stern, Mark L^2 -index theorems on locally symmetric spaces. 90k:58212
- Sternberg, Shlomo *see* Kostant, Bertram, 90j:53015
- Strasburger, Aleksander Reduction of invariant differential operators and expansions of conical distributions for $SO_0(n, 1)$. 90c:22027
- Strichartz, Robert S. Local harmonic analysis on spheres. 90f:43014
- Su, Wei Yi *see* Onneweer, C. W., 90b:43004
- Terras, Audrey The central limit theorem for the symmetric space of $GL(3)$. 90j:60015
- Travaglini, Giancarlo *see* Giulini, Saverio, 90h:43003a and Colzani, Leonardo; et al., 90h:43003b
- Trombi, P. C. On Harish-Chandra's theory of the Eisenstein integral for real semisimple Lie groups. 90i:22026
- Unterberger, A. Analyse harmonique et analyse pseudo-différentielle du cône de lumière. (English summary) [Harmonic analysis and pseudodifferential analysis of the light cone]

90d:58152

- Varchenko, A. N. Functional equations for the volume mapping. (Russian) **90g:32014**
 Warner, Garth. *see* Osborne, M. Scott, **90h:42018**
 Wawrzyńczyk, Antoni. Spectral analysis on upper light cone in \mathbb{R}^3 and the Radon transform. **90h:43010**
 Xie, Jia Hui. *see* Fan, Du Shan, **90m:43027**
 Ye, Fang Cao. Invariant differential operators on nonexceptional irreducible Riemannian symmetric spaces of the first type. (Chinese. English summary) **90m:32050**
 Zelevinskiĭ, A. V. *see* Gelfand, I. M.; et al., **90k:14054** and **90k:14055**

22E35 Analysis on p -adic Lie groups [see also 11R56]

- Ahmad, Guido. Analyse harmonique sur l'espace d'arêtes d'un arbre. [Harmonic analysis on the edge space of a tree] **90g:22009**
 Murnaghan, Fiona. Invariant meromorphic distributions on p -adic $GL(n)$. **90f:22016**
- Items with secondary classifications in 22E35
- Akkaouchi, Mohamed. Une caractérisation du noyau de Poisson d'un arbre homogène. [A characterization of the Poisson kernel of a homogeneous tree] **90k:43015**
 Annet, K. Algebraic equations for Green kernel on a tree. **90a:47072**
 Betori, W. (with Faraut, J.; Pagliacci, M.). An inversion formula for the Radon transform on trees. **90k:22004**
 Bouaziz-Kellil, Feridoun. Représentations sphériques des groupes agissant transitivement sur un arbre semi-homogène. (English summary) [Spherical representations of groups acting transitively on a semihomogeneous tree] **90a:43008**
 Chekhov, L. O. (with Mironov, A. D.; Zabrodin, A. V.). Multiloop calculations in p -adic string theory and Bruhat-Tits trees. **90k:14016**
 Corwin, Lawrence (with Moy, Allen; Sally, P. J., Jr.). Degrees and formal degrees for division algebras and GL_n over a p -adic field. **90k:22025**
 Faraut, J. Algèbres de Volterra et transformation de Laplace sphérique sur certains espaces symétriques ordonnés. [Volterra algebras and spherical Laplace transform on certain ordered symmetric spaces] **90a:43006**
 — *see also* Betori, W.; et al., **90k:22004**
 Hassenforder, Claudie. Les lois de Cauchy sur les bouts de l'arbre homogène. (English summary) [Cauchy distributions on the ends of the homogeneous tree] **90a:60012**
 Hironaka, Yumiko (with Sato, Fumihiro). Spherical functions and local densities of alternating forms. **90c:11029**
 — Spherical functions of Hermitian and symmetric forms. I. **90c:11027**
 — Spherical functions of Hermitian and symmetric forms. III. **90c:11028**
 Kuhn, Gabriella (with Soardi, P. M.). On the number of representations of an element in a polygonal Cayley graph. (Italian summary) **90h:05014**
 Kutzko, Phil (with Manderscheid, David). On intertwining operators for $GL_n(F)$, F a non-Archimedean local field. **90c:22054**
 Manderscheid, David. *see* Kutzko, Phil, **90c:22054**
 Maurice, Yannick. Quantum mechanics with p -adic numbers. **90i:22029**
 — The classical harmonic oscillator on Galois and p -adic fields. **90m:22049**
 Mironov, A. D. *see* Chekhov, L. O.; et al., **90k:14016**
 Moy, Allen. *see* Corwin, Lawrence; et al., **90k:22025**
 Pagliacci, M. *see* Betori, W.; et al., **90k:22004**
 Sally, P. J., Jr. *see* Corwin, Lawrence; et al., **90k:22025**
 Sato, Fumihiro. *see* Hironaka, Yumiko, **90c:11029**
 Shahidi, Freydoon. Third symmetric power L -functions for $GL(2)$. **90m:11081**
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 Su, Wei Yi. Pseudodifferential operators in Besov spaces over local fields. **90h:47100**
 Vladimirov, V. S. (with Volovich, I. V.). p -adic Schrödinger-type equation. **90m:81019**
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22E40 Discrete subgroups of Lie groups [see also 20Hxx and 32Nxx]

- Borel, A. On the set of discrete subgroups of bounded covolume in a semisimple group. **90c:22013**
 Casselman, W. Introduction to the Schwartz space of $\Gamma \backslash G$. **90c:22014**
 Damian, F. L. Torsion-free discrete groups in Λ^3 that are generated by translations. (Russian) **90c:22031**
 Dani, S. G. (with Margulis, G. A.). Values of quadratic forms at primitive integral points. **90k:22013b**
 Dunbar, William D. Geometric orbifolds. **90k:22011**
 Gorbachevich, V. V. *see* Vinberg, E. B.; et al., **90c:22036**
 Hoffmann, Werner. The trace formula for Hecke operators over rank one lattices. **90i:22019**
 Ivanov, N. V. The rank of Teichmüller modular groups. **90c:22015**
 Jiang, Cai Kun. On the fundamental groups of noncompact symmetric spaces. (Chinese) **90c:22016**
 Jørgensen, Troels (with Marden, Albert). Kleinian groups with quotients of finite volume. **90c:22032**
 Kilmenko, E. Ya. Discrete groups in the three-dimensional Lobachevskii space that are generated by two rotations. **90c:22017**
 Kobayashi, Toshiyuki. Proper action on a homogeneous space of reductive type. **90k:22012**
 Konno, Yasuko. Cohomology of discrete subgroups of $Sp(p, q)$. **90c:22033**
 Labotzky, Alexander (with Zimmer, Robert J.). Variants of Kazhdan's property for subgroups of semisimple groups. **90k:22020**
 Marden, Albert. *see* Jørgensen, Troels, **90c:22032**
 Margulis, G. A. Discrete subgroups and ergodic theory. **90k:22013a**
 — *see also* Dani, S. G., **90k:22013b**
 Millson, John J. Deformations of representations of finitely generated groups. **90c:22034**
 Mostow, G. D. Selberg's work on the arithmeticity of lattices and its ramifications. **90c:22010**
 Platetski-Shapiro, I. I. Nonarithmetic lattices in Lobachevsky spaces of arbitrary dimension. **90d:22011**
- Savin, Gordan. Limit multiplicities of cusp forms. **90c:22035**
 Shvartsman, O. V. *see* Vinberg, E. B.; et al., **90c:22036**
 Taniguchi, Masahiko. Examples of discrete groups of hyperbolic motions conservative but not ergodic at infinity. **90g:22018**
 Tukia, Pekka. Homeomorphic conjugates of Fuchsian groups: an outline. **90h:22011**
 Vinberg, E. B. (with Gorbachevich, V. V.; Shvartsman, O. V.). Discrete subgroups of Lie groups. (Russian) **90c:22036**
 Witte, Dave. Topological equivalence of foliations of homogeneous spaces. **90d:22012**
 Zimmer, Robert J. Representations of fundamental groups of manifolds with a semisimple transformation group. **90k:22021**
 — *see also* Labotzky, Alexander, **90k:22020**
- Items with secondary classifications in 22E40
- Ahn, Changrim (with Walton, Mark A.). Spectra of strings on nonsimply-connected group manifolds. **90g:81205**
 Apasov, B. N. The geometry of Nielsen's hull for a Kleinian group in space and quasi-conformal mappings. **90k:57046**
 Ash, Avner. Parabolic cohomology of arithmetic subgroups of $SL(2, \mathbb{Z})$ with coefficients in the field of rational functions on the Riemann sphere. **90c:11084**
 Babenko, I. K. Closed geodesics, asymptotic volume and the characteristics of growth of groups. **90h:58219**
 Bagger, Jonathan. Twisted strings and orbifolds. (*see* **90i:81005**)
 Bakas, I. Hamiltonian reduction and conformal symmetries in two dimensions. **90c:81150**
 Baldassarri, F. (with Dwork, B.; Tivena, F.). On singular projective structures on Riemann surfaces. **90m:30058**
 Benson, Chul (with Gordon, Carolyn S.). Kähler structures on compact solvmanifolds. **90g:53079**
 Bers, Lipman. Finitely generated Kleinian groups. An introduction. **90i:20050**
 Boileau, M. (with Faraut, J.; Pagliacci, M.). An inversion formula for the Radon transform on trees. **90k:22004**
 Birman, Joan S. Mapping class groups of surfaces. **90g:57013**
 Boileau, Michel (with Zimmermann, B.). The π -orbifold group of a link. **90a:57005**
 Brooks, Robert A. Construction of metrics of negative Ricci curvature. **90c:53099**
 Bujalance, E. (with Martínez, Ernesto). A remark on NEC groups representing surfaces with boundary. **90a:20094**
 Burger, Marc. Grandes valeurs propres du laplacien et graphes. [Large eigenvalues of the Laplacian and graphs] (*see* **90m:58220**)
 Buyalo, S. V. Closed geodesics on 2-dimensional orbifolds of nonpositive curvature. (Russian) **90h:53035**
 Cannon, J. W. (with Floyd, W. J.; Grayson, M. A.; Thurston, W. P.). Solvgroups are not almost convex. **90j:57007**
 Connes, Alain (with Moscovici, Henri). Conjecture de Novikov et groupes hyperboliques. (English summary) [Hyperbolic groups and the Novikov conjecture] **90c:57048**
 Cowling, Michael (with Haagerup, Uffe). Completely bounded multipliers of the Fourier algebra of a simple Lie group of real rank one. **90h:22008**
 Dani, S. G. (with Margulis, G. A.). Values of quadratic forms at primitive integral points. (French summary) **90d:11080**
 Deguchi, Tetsuo. *see* Wadati, Mikki; et al., **90f:57015**
 Derevnin, D. A. (with Mednykh, A. D.). Geometric properties of discrete groups acting with fixed points in a Lobachevskii space. **90a:30131**
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 Efrat, Isaac. On the existence of cusp forms over function fields. **90g:11066**
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 Farrell, F. T. (with Jones, Lowell Edwin). A topological analogue of Mostow's rigidity theorem. **90h:57023a**
 — (with Jones, Lowell Edwin). Compact negatively curved manifolds (of dim $\neq 3, 4$) are topologically rigid. **90h:57023b**
 — (with Jones, Lowell Edwin). Rigidity and other topological aspects of compact nonpositively curved manifolds. **90h:57023c**
 Fendley, P. (with Ginsparg, P.). Noncritical orbifolds. **90m:82055**
 Fine, Benjamin. Algebraic theory of the Bianchi groups. **90h:20002**
 Fisk, Mark D. Five-point tree amplitude for the heterotic string. **90c:81175**
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 Font, A. (with Ibáñez, L. E.; Quevedo, F.). $Z_N \times Z_M$ orbifolds and discrete torsion. **90h:81120**
 Gehring, F. W. (with Martin, G. J.). Iteration theory and inequalities for Kleinian groups. **90k:30086**
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 Goldman, William M. Geometric structures on manifolds and varieties of representations. **90i:57024**
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 Grayson, M. A. *see* Cannon, J. W.; et al., **90j:57007**
 Gromov, Mikhael L. Rigid transformations groups. **90d:58173**
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 de la Harpe, Pierre. Groupes hyperboliques, algèbres d'opérateurs et un théorème de Jolissaint. (English summary) [Hyperbolic groups, operator algebras and Jolissaint's theorem] **90d:22005**
 Harvey, Jeffrey A. Lectures on heterotic string and orbifold compactifications. (*see* **90h:81004**)
 Hildebrand, Martin (with Weeks, Jeffrey). A computer generated census of cusped hyperbolic 3-manifolds. **90f:57043**
 Ibáñez, L. E. The search for a standard model $SU(3) \times SU(2) \times U(1)$ superstring: an introduction to orbifold constructions. **90j:81273**
 — The search for a standard model $SU(3) \times SU(2) \times U(1)$ superstring: an introduction to orbifold constructions. **90i:81177**
 — *see also* Font, A.; et al., **90h:81120**
 Iozzi, Alessandra. A nonlinear extension of the Borel density theorem: applications to invariance of geometric structures and to smooth orbit equivalence. **90k:22020**
 Itoh, Katsumi. Interaction of strings on orbifolds—string field theory on Z_2 -orbifold. **90j:81207**

- Ivanov, N. V. Teichmüller modular groups and arithmetic groups. (Russian. English summary) 90a:32077
- Jollissaint, Paul *K*-theory of reduced C^* -algebras and rapidly decreasing functions on groups. 90j:22004
- Jones, Lowell Edwin see Farrell, F. T., 90h:57023a; 90h:57023b and 90h:57023c
- Katsuki, Yasuhiko (with Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu) Z_7 orbifold models. 90a:83080
- (with Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu; Ono, Yasuji; Tanioka, Kazutaka) Z_4 and Z_{12} orbifold models. 90h:14055
- Kawamura, Yoshiharu see Katsuki, Yasuhiko; et al., 90a:83080 and 90h:14055
- Kitagawa, Shoichi On classification of parabolic reflection groups in $SU(n, 1)$. 90b:20041
- Kobayashi, Tatsuo see Katsuki, Yasuhiko; et al., 90a:83080 and 90h:14055
- Kojima, Sadayoshi Isometry transformations of hyperbolic 3-manifolds. 90c:57033
- Kudla, Stephen S. (with Millson, John J.) Tubes, cohomology with growth conditions and an application to the theta correspondence. 90k:11054
- Lawson, Terry Compactness results for orbifold instantons. 90a:57052
- Li, Jian-Shu (with Piatetski-Shapiro, I. I.; Sarnak, P.) Poincaré series for $SO(n, 1)$. 90j:11040
- Long, D. D. On the linear representation of braid groups. II. 90j:20081
- Looijenga, Eduard L^2 -cohomology of locally symmetric varieties. 90a:32044
- Magid, Andy R. Deformations of representations of discrete groups. 90d:20018
- Mahapatra, Swapna $SU(3) \times SU(2) \times U(1)^*$ from a Z_4 orbifold model. 90h:81125
- Makarov, V. S. Matrix representations of the fundamental groups of certain three-dimensional manifolds of constant negative curvature that have a finite measure. (Russian) 90d:53079
- Margulis, G. A. see Dani, S. G., 90d:11080
- Martin, G. J. see Gehring, F. W., 90k:30086
- Martinez, Ernesto see Bujalance, E., 90a:20094
- Maskit, Bernard \star Kleinian groups. 90a:30132
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- Michel, Louis (with Mozzrymas, Jan) Les concepts fondamentaux de la cristallographie. (English summary) [The fundamental concepts of crystallography] 90c:82048
- Miller, Andy see McCullough, Darryl, 90c:57036
- Millson, John J. see Kudla, Stephen S., 90k:11054
- Mia-Oo, Maung Almost symmetric spaces. (French summary) 90g:53064
- Mok, Ngaiming Strong rigidity of irreducible quotients of polydiscs of finite volume. 90b:32046
- (with Zhong, Jia Qing) Compactifying complete Kähler-Einstein manifolds of finite topological type and bounded curvature. 90d:32045
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- Narsin, K. S. Asymmetric orbifolds. 90c:81206
- Nilles, H. P. Strings on orbifolds: an introduction. 90k:81234
- Noskov, G. A. On the number of generators of crystallographic groups. 90g:20072
- Oda, Takayuki (with Schwermer, Joachim) Mixed Hodge structures and automorphic forms for Siegel modular varieties of degree two. 90m:11072
- Ohtsubo, Noriyasu see Katsuki, Yasuhiko; et al., 90a:83080 and 90h:14055
- Ono, Yasuji see Katsuki, Yasuhiko; et al., 90h:14055
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- Paternalin, Miguel Expansive flows and the fundamental group. 90m:58160
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- Pollicott, Mark Kleinian groups, Laplacian on forms and currents at infinity. 90m:58217
- Potygallo, L. D. Three-dimensional Kleinian groups that are isomorphic to the fundamental group of the Haken manifold. 90k:57020
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- Proskurin, N. V. Automorphic forms on the exceptional group $G_2(C)$. (Russian) 90h:11052
- Quevedo, F. see Font, A.; et al., 90h:81120
- Rühl, W. Automorphic functions, Poincaré series, and conformal fields on Riemann surfaces. 90j:11039
- Sagnotti, Augusto see Pradisi, Gianfranco, 90c:81227
- Sarnak, P. see Li, Jian-Shu; et al., 90j:11040
- Savoy, C. A. see Peschanski, R., 90h:81183
- Schellekens, A. N. (with Warner, N. P.) Weyl groups, supercurrents and covariant lattices. II. 90c:81216
- Schwalbe, Daniel *K*-theory for discrete subgroups of the Lorentz groups. 90k:22006
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- Shenman, O. K. Hamiltonian string formalism and discrete groups. 90c:81148
- Skora, Richard K. Splittings of surfaces. 90k:57016
- Spatzier, R. J. On isospectral locally symmetric spaces and a theorem of von Neumann. 90k:22027
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- Stern, Mark L^2 -index theorems on locally symmetric spaces. 90k:58212
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- Susskind, Perry Kleinian groups with intersecting limit sets. 90f:57045
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- Toledo, Domingo Representations of surface groups in complex hyperbolic space. 90a:57016
- Tong, Yue Lin Lawrence (with Wang, Shu Ping) Geometric realization of discrete series for semisimple symmetric spaces. 90g:22024
- Torricelli, Hugo H. Subgroups of the Klein bottle group and the mapping class group of the Klein bottle. 90g:57002
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- Tukia, Pekka A remark on a paper by Floyd. 90b:30054
- Vogel, Pierre Représentations et traces des algèbres de Hecke. Polynôme de Jones-Conway. [Representations and traces of Hecke algebras. The Jones-Conway polynomial] 90c:57017
- Wadati, Miki (with Yamada, Yasuhiko; Deguchi, Tetsuo) Knot theory and conformal field theory: reductions relation for braid generators. 90f:57015
- Wallace, D. L. Terms in the Selberg trace formula for $SL(3, \mathbb{Z}) \backslash SL(3, \mathbb{R}) / SO(3, \mathbb{R})$ associated to Eisenstein series coming from a maximal parabolic subgroup. 90c:11081
- Walton, Mark A. see Ahn, Changrim, 90g:81205
- Wang, Shu Ping see Tong, Yue Lin Lawrence, 90g:22024
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- Yoshida, Masaaki \star Fuchsian differential equations. 90f:32025
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- Zimmer, Robert J. Orbit equivalence, Lie groups, and foliations. 90a:28030
- Zimmermann, B. see Boileau, Michel, 90a:57005
- Zucchini, R. A geometrical framework for twisted conformal field theory on Riemann surfaces. 90g:32027

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- Bylinksi, Jean-Luc Some examples of Hochschild and cyclic homology. 90c:22018
- Feigin, B. L. (with Fuks, D. B.) Cohomology of Lie groups and Lie algebras. (Russian) 90k:22014
- Friedlander, Eric M. (with Mislin, Guido) Conjugacy classes of finite solvable subgroups in Lie groups. 90f:22017
- Fuks, D. B. see Feigin, B. L., 90k:22014
- Hilla, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] 90c:22019
- Mislin, Guido see Friedlander, Eric M., 90f:22017

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- Ash, Avner Parabolic cohomology of arithmetic subgroups of $SL(2, \mathbb{Z})$ with coefficients in the field of rational functions on the Riemann sphere. 90c:11084
- Cathelineau, J. L. Sur l'homologie de SL_2 à coefficients dans l'action adjointe. [SL_2 -homology with coefficients in the adjoint action] 90f:57054
- Tong, Yue Lin Lawrence Some nonzero harmonic forms and their geometric duals. 90m:11084

22E43 Structure and representation of the Lorentz group

- Alhassid, Y. see Wu, Jian Shi, 90m:22030
- Casati, P. Indecomposable representations of the group $SL(2, \mathbb{C})$ corresponding to the Gelfand-Ponomarev representations of its Lie algebra. I. The nonsingular case. (Italian and Russian summaries) 90c:22037
- Indecomposable representations of the group $SL(2, \mathbb{C})$ corresponding to the Gelfand-Ponomarev representations of its Lie algebra. II. The singular case. (Italian and Russian summaries) 90c:22038
- Faraut, J. (with Strasburger, Aleksander) Vecteurs de Whittaker et fonctions hyperboliques. (English summary) [Whittaker vectors and horospherical functions for real hyperbolic spaces] 90b:22015
- Huszar, M. Addition theorems for the spherical functions of the Lorentz group. 90c:22020
- Strasburger, Aleksander see Faraut, J., 90b:22015
- Vassiliadis, Dimitris Wigner's little group and decomposition of Lorentz transformations. 90c:22021
- Wu, Jian Shi (with Alhassid, Y.) The potential group approach and hypergeometric differential equations. 90m:22030
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- Aliev, G. B. (with Mamedov, A. A.) The reduction from $SL(2, \mathbb{C}) \supset SL(2, \mathbb{R})$ of representations of the complementary series. (Russian. English and Azerbaijani summaries) 90c:22043
- (Antippa, A. F.) see Maccarrone, G. Daniele, 90i:83002

- Barannik, L. F. (with Lagno, V. I.) One-parameter subgroups of the generalized Poincaré group $P(2, n)$ and their invariants. 90i:58203
- Biedenharn, L. C. (with Braden, H. W.; Truini, P.; van Dam, H.) Relativistic wavefunctions on spinor spaces. 90e:81069
- Braden, H. W. see Biedenharn, L. C.; et al., 90e:81069
- van Dam, H. see Biedenharn, L. C.; et al., 90e:81069
- (Everett, A. E.) see MacCarone, G. Daniele, 90i:83002
- Han, Daesoo (with Hardekopf, E. E.; Kim, Y. S.) Thomas precession and squeezed states of light. 90d:33001
- Hardekopf, E. E. see Han, Daesoo; et al., 90d:33001
- Kim, Y. S. see Han, Daesoo; et al., 90d:33001
- (Kitakado, S.) see Ohnuki, Y., 90k:22037
- Lahastida, J. M. F. Massless particles in arbitrary representations of the Lorentz group. 90g:81106
- Lagno, V. I. see Barannik, L. F., 90i:58203
- Lüst, D. (with Theisen, S.) Superstring partition functions and the characters of exceptional groups. 90g:81256
- MacCarone, G. Daniele (with Recami, E.) Comments on a paper by L. Marchildon, A. F. Antipka and A. E. Everett about tachyons: "Superluminal coordinate transformations: four-dimensional case" [Phys. Rev. D (3) 27 (1983), no. 8, 1740-1751; MR 84c:83009]. 90i:83002
- Mamedov, A. A. see Aliev, G. B., 90c:22043
- (Marchildon, L.) see MacCarone, G. Daniele, 90i:83002
- Mirman, R. Complex groups, quantum mechanics, and the dimension and reality of space. 90i:22012
- Ohnuki, Y. ★ Unitary representations of the Poincaré group and relativistic wave equations. 90k:22037
- Recami, E. see MacCarone, G. Daniele, 90i:83002
- Salingaros, N. A. Erratum: "The Lorentz group and the Thomas precession. II. Exact results for the product of two boosts" [J. Math. Phys. 27 (1986), no. 1, 157-162; MR 87g:78009]. 90e:83012
- Srinivasa Rao, K. N. ★ The rotation and Lorentz groups and their representations for physicists. 90h:81042
- (Supiyama, T.) see Ohnuki, Y., 90k:22037
- Theisen, S. see Lüst, D., 90g:81256
- Truini, P. see Biedenharn, L. C.; et al., 90e:81069
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- 22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05.}**
- Alcalde, Carlos (with Sternheimer, D.) Analytic vectors, anomalies and star representations. 90h:22012
- Bass, Debabrata¹ Representations of $SL(2, \mathbb{R})$ in a Hilbert space of analytic functions and a class of associated integral transforms. 90h:22013
- Biedenharn, L. C. (with Louck, J. D.) Inhomogeneous basis set of symmetric polynomials defined by tableaux. 90c:22031
- Branson, Thomas P. Group representations arising from Lorentz conformal geometry. 90k:22016
- Bratteli, Ola (with Goodman, Fred; Jørgensen, Palle E. T.; Robinson, Derek W.) Unitary representations of Lie groups and Gårding's inequality. 90h:22017
- Cantoni, Vittorio Construction of indecomposable representations of inhomogeneous Lie groups. 90h:22014
- De Bièvre, S. Coherent states over symplectic homogeneous spaces. 90m:22032
- Dehevels, René Décomposition de certains produits tensoriels de représentations de $Spin(n)$. (English summary) [Decomposition of some tensor products of representations of $Spin(n)$] 90m:22033
- Dé Nage Diépé Multidimensional quantization. IV. The generic representations. 90k:22015
- Flath, Daniel E. An analogue of the Weyl algebra. 90c:22012
- Floratos, E. G. Representations of the quantum group $GL_q(2)$ for values of q on the unit circle. 90m:22034
- Goodman, Fred see Bratteli, Ola; et al., 90h:22017
- Howe, Roger E. The classical groups and invariants of binary forms. 90c:22022
- Transcending classical invariant theory. 90k:22016
- Remarks on classical invariant theory. 90k:22015a
- Erratum to: "Remarks on classical invariant theory". 90k:22015b
- Jørgensen, Palle E. T. see Bratteli, Ola; et al., 90h:22017
- Karasev, V. P. Duality of representations of groups, the theory of invariants, and hidden symmetries. (Russian) 90k:22017
- Kazarnovskii, B. Ya. Newton polyhedra and Bezout's formula for matrix functions of finite-dimensional representations. (Russian) 90c:22023
- Kirillov, A. N. Clebsch-Gordan quantum coefficients. (Russian) 90c:22039
- Klink, W. H. (with Ton-That, T.) On resolving the multiplicity of arbitrary tensor products of the $U(N)$ groups. 90c:22024
- Kostant, Bertram The principle of triality and a distinguished unitary representation of $SO(4, 4)$. 90h:22016
- Louck, J. D. see Biedenharn, L. C., 90m:22031
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- Mori, Kichiji Spherical functions on connected unimodular Lie groups. 90d:22014
- Reciprocity theorem and invariant differential operators. 90d:22013
- Discrete series representations and K -theory of Hilbert C^* modules. 90g:22019
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- Nastungimpaya, Joachim Galilei-Newton law by symplectic realizations. 90c:22042
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- Przebinda, Tomasz The oscillator duality correspondence for the pair $O(2, 2)$, $Sp(2, \mathbb{R})$. 90f:22019
- Rader, Cary Spherical functions on Cartan motion groups. 90a:22014
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- Rideau, G. Nonlinear representations of the Poincaré group in 3 and 4 space-time dimensions. 90j:22010
- Robinson, Derek W. Lie groups and Lipschitz spaces. 90k:22018
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- Shvaya, K. The orbit geometry of a representation of certain Lie groups. (Russian) 90m:22035
- Stade, Eric Poincaré series for $GL(3, \mathbb{R})$ -Whittaker functions. 90i:22022
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- Ali, S. Twareque (with De Bièvre, S.) Coherent states and quantization on homogeneous spaces. 90d:22007
- Alilaukas, Sigita Bi-orthogonal and orthonormal Clebsch-Gordan coefficients of $SU(3)$: analytic and algebraic approaches. 90c:22061
- Arshansky, R. (with Horwitz, L. P.) The quantum relativistic two-body bound state. II. The induced representation of $SL(2, \mathbb{C})$. 90j:81059
- Barbasch, Dan The unitary dual for complex classical Lie groups. 90c:22044
- Beckers, J. (with Debergh, N.) Uncertainty, entropy and generalized $SO(2, 1)$ -coherent states. (French summary) 90i:81099
- Berezin, A. V. (with Kuvshinov, V. I.; Fedorov, F. I.) Linear natural parametrization of the Poincaré supergroup. 90c:22065
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- (Billard, J.-M.) see Dixmier, Jacques, 90m:15047
- Bias, Matthias Constraints and polarizations. 90a:58059
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- Bratteli, Ola (with Goodman, Fred; Jørgensen, Palle E. T.; Robinson, Derek W.) The heat semigroup and integrability of Lie algebras. 90a:47105
- Bressler, Paul (with Evens, Sam) The Schubert calculus, braid relations, and generalized cohomology. 90e:57074
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- (with Gaveau, Bernard) Échelles hypergéométriques et polynômes sphériques des systèmes de racines BC de rang deux. (English summary) [Hypergeometric ladders and spherical polynomials of root systems of type BC and rank 2] 90g:22011
- De Bièvre, S. see Ali, S. Twareque, 90d:22007
- Dixmier, Jacques Quelques aspects de la théorie des invariants. [Some aspects of invariant theory] 90m:15047
- Doty, Stephen Filtrations of rational representations of reductive groups of semisimple rank 1. 90i:20042
- Ehrenpreis, Leon Hypergeometric functions. 90f:33004
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- Glockner, Peter (with von Waldenfels, Wilhelm) The relations of the noncommutative coefficient algebra of the unitary group. 90m:16006
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- Gurbanov, Zh. Algebras that are invariant with respect to some irreducible representations of the group $SL(n)$. (Russian. English summary) 90j:17030
- Gustafson, Robert A. Invariant theory and special functions. 90g:22029
- Gutkin, E. Method of intertwining operators for integrable models of quantum mechanics. 90f:81040
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- Man'ko, V. L. (with Trifonov, D. A.) Matrix elements of finite transformations of Lie groups in the bases of coherent and Fock states. 90c:81059
- Michel, Louis The Landau theory of second-order phase transitions and the invariant theory. 90j:82012
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- Yamagishi, Kengo (with Wu, Yong Shi¹) A homogeneous-space construction of superconformal symmetry in terms of nonabelian fermions. 90a:81171
- Yamashita, Hiroshi Generalized Gelfand-Graev representations of semisimple Lie groups. Whittaker models of representations and finite multiplicity theory. (Japanese) 90g:22025
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- Arthur, James Characters, harmonic analysis, and an L^2 -Lefschetz formula. 90j:22012
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- (with Knapp, A. W.) Intertwining operators and unitary representations. I. 90g:22021
- van den Ban, E. P. The principal series for a reductive symmetric space. I. H -fixed distribution vectors. 90a:22016
- Barbasch, Dan The unitary dual for complex classical Lie groups. 90c:22044
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- Casian, Luis G. (with Collingwood, David H.) Complex geometry and the asymptotics of Harish-Chandra modules for real reductive Lie groups. III. Estimates on n -homology. 90c:22045
- (with Collingwood, David H.) Weight filtrations for induced representations of real reductive Lie groups. 90c:22046
- Casselman, W. Canonical extensions of Harish-Chandra modules to representations of G . 90j:22013
- Collingwood, David H. see Casian, Luis G., 90c:22045 and 90c:22046
- Couture, Michel Josaphat (with Sharp, R. T.) Irreducible embeddings and polynomial tensors. 90d:22015
- Davidson, M. G. (with Stanke, R. J.) Gradient-type differential operators and unitary highest weight representations of $SU(p, q)$. 90c:22025
- Gould, M. D. Representation theory of the symplectic groups. I. 90c:22047
- Guichardet, Alain Sur les groupes Ext^* des représentations des groupes de Lie semi-simples. [The groups Ext^* of representations of semisimple Lie groups] 90c:22026
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- Howe, Roger E. (GL_n, GL_m) -duality and symmetric plethysm. 90b:22020
- Iozzi, Alessandra A nonlinear extension of the Borel density theorem: applications to invariance of geometric structures and to smooth orbit equivalence. 90k:22020
- Kashiwara, Masaki The invariant holonomic system on a semisimple Lie group. 90k:22021
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- Klimyk, A. U. (with Vilenkin, N. Ya.) Relations between spherical functions of compact groups. 90i:22024
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- Koike, Kazuhiko On the decomposition of tensor products of the representations of the classical groups: by means of the universal characters. 90j:22014
- Le Blanc, Richard (with Biedenharn, L. C.) Implementation of the $U(n)$ tensor operator calculus in a vector Bargmann Hilbert space. 90c:22048
- Li, Xiao Yun² Barycentric coordinates and irreducible representations of the group SU_n . (Chinese. English summary) 90j:22015
- Maekawa, Takayoshi Representation matrix elements of $U(n, 1)$, due to multiplier representation, and their continuation to $U(n+1)$ and $IU(n)$. 90d:22016
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- Nomura, Takaaki A description of a space of holomorphic discrete series by means of the Fourier transform on the Šilov boundary. 90g:22023
- Osborne, M. Scott Lefschetz formulas on nonelliptic complexes. 90k:22022
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- Vilenkin, N. Ya. (with Klesova, L. M.) Functions of the discrete spectrum in harmonic analysis on hyperboloids. 90a:22018
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- (with Klimyk, A. U.) Representations of the group $SU(1, 1)$, and the Krawchouk-Meixner functions. (Russian. English summary) 90a:22020
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- Beckers, J. (with Debergh, N.) On generalized coherent states with maximal symmetry for the harmonic oscillator. 90b:81064
- Benkart, G. M. (with Britten, D. J.; Lemire, F. W.) Stability in modules for classical Lie algebras—a constructive approach. 90m:17012
- Biedenharn, L. C. (with Louck, J. D.) Some properties of generalized hypergeometric coefficients. 90a:33006
- Bigonnet, Bruno Construction d'une C^* -algèbre associée à certains feuilletages de Stefan. (English summary) [A C^* -algebra associated to some foliations with singularities] 90a:46173
- Bouaziz-Kellil, Ferdaous Représentations sphériques des groupes agissant transitivement sur un arbre semi-homogène. (English summary) [Spherical representations of groups acting transitively on a semihomogeneous tree] 90e:43008
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- Commins, C. J. Inverse branching rules. 90c:22034
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- Fegan, H. D. (with Steer, B.) On the "strange formula" of Freudenthal and de Vries. 90h:17012
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- Foot, R. (with Joshi, G. C.) Nonstandard signature of spacetime, superstrings, and the split composition algebras. 90m:17008
- Fox, Jeff (with Haskell, Peter) A new proof of the K -amenability of $SU(1, 1)$. 90a:46180
- Gelfand, I. M. (with Zelevinskii, A. V.; Kapranov, M. M.) Projective-dual varieties and hyperdeterminants. 90m:14045
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- McGovern, William M. Unipotent representations and Dixmier algebras. 90k:17031
- Onishchik, A. L. On the centre of a transitive semisimple Lie group. 90c:22010
- Opdam, E. M. Root systems and hypergeometric functions. III. 90k:17021
- Platonov, S. S. Invariant subspaces in some function spaces on an n -dimensional Lobachevskii space. 90f:43013
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- Price, John F. (with Sitaram, Alladi) Functions and their Fourier transforms with supports of finite measure for certain locally compact groups. 90c:43003
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- Rideau, G. Nontrivial extensions of a massless representation with definite helicity of the Poincaré group in $3+1$ dimensions by the tensor product of two other massless representations with definite helicity. 90c:22051
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- Conservation de la ramification modérée par la correspondance de Howe. (English summary) [Preservation of tame ramification by the Howe correspondence] 90k:22024
- Barbasch, Dan (with Moy, Allen) A unitarity criterion for p -adic groups. 90m:22038
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- Clozel, Laurent Orbital integrals on p -adic groups: a proof of the Howe conjecture. 90k:22020
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- Hijikata, Hiroaki On the convolution algebra of distributions on totally disconnected locally compact groups. 90m:22039
- Howe, Roger E. (with Moy, Allen) Minimal K -types for GL_n over a p -adic field. 90m:22040
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- P -cuspidal representations of level one. 90c:22056
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- Queyret, J. The functional equation s -factors. (see 90m:11193)
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26-04 Explicit machine computation and programs (not the theory of computation or programming)

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- Cluj-Napoca ★ Itinerant Seminar on Functional Equations, Approximation and Convexity. 90m:41003
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26A12 Rate of growth of functions, orders of infinity, slowly increasing functions [see also 26A48]

- Bingham, N. H. (with Goldie, Charles M.; Teugels, Jozef L.) ★ Regular variation. 90i:26003

- Geluk, J. L. Asymptotically balanced functions and the asymptotic behaviour of the complementary function and the Laplace transform. 90b:26004
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 (Newton, I.) *see* Medvedev, F. A., 90b:01021
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26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.}

- Burke, Maxim R. Some remarks on density-continuous functions. 90a:26002
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 Bucolich, Z. Sets of convexity of continuous functions. 90b:26036
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 Grossmann, A. Wavelet transforms and edge detection. 90a:92008
 Impens, Chris Real functions as traces of infinite polynomials. 90b:26030
 Kellum, Kenneth R. Iterates of almost continuous functions and Sarkovskii's theorem. 90d:26008
 Kratz, Werner (with Stadtmüller, Ulrich) On the uniform modulus of continuity of certain discrete approximation operators. 90a:41019
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- Gilliam, K. P. (with Vinante, C. D.) On the differentiation of vector valued composite Lipschitz continuous functions. (Spanish summary) 90b:26002
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26A18 Iteration [see also 39B10, 47H10, 54H25, 58F08]

- Antoranz, J. C. (with Rubio, M. A.; de la Torre, M.) Soft transition between type-I and -III intermittencies in a nonlinear map. 90b:26009
 Arterburn, David R. (with Stone, William Dean) A Cantor set of nonconvergence. 90b:26009
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 — (with Lyubich, M. Yu.) The absence of wandering intervals in one-dimensional smooth dynamical systems. 90b:58110
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- Boyarsky, Abraham *see* Scarowsky, Manny, 90b:58067
- Brucka, K. M. MSS sequences, colorings of necklaces, and periodic points of $f(z) = z^2 - 2$. 90c:58083
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26A21 Classification of real functions; Baire classification of sets and functions [see also 04A15, 28A05, 54C50]

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- Ene, Vasile Answers to three questions of J. Foran: "Continuous functions—a survey" [Real Anal. Exchange 2 (1976/77), no. 2, 85–103; MR 58 #22429]. 90k:26009
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- Bernal Serrano, Antonio A note on the one-dimensional maximal function. 90f:28010
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- Carballido, José Fco. (with de la Villa, Agustín) Homothetic sets: a covering problem in \mathbb{R} . (see 90g:28001)
- Ene, Vasile A theorem which implies both Tolstov's theorem and Zahorski's theorem on monotonicity. 90d:26011
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- Dumont, Jean-Marie Formules sommatoires et systèmes de numération liés aux substitutions. [Summation formulas and numbering systems associated with substitutions] 90m:11023
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Sheng, Shu Yun Some properties of ABMV and ϕ ABMV functions. (Chinese) 90c:26016

Shi, Xian Liang (with Chen, Quan De) On the classes ABV and $V[v]$. (Chinese. English summary) 90c:26010

Wang, Guan Min Functions of bounded variation of order $M + 1$ on sequence spaces. (Chinese) 90d:26017

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Cesari, Lamberto (with Pucci, Patrizia) Remarks on discontinuous optimal solutions for simple integrals of the calculus of variations. 90c:49002

Darmawijaya, Soeparna An Orlicz scale of integrals. 90c:26029

Das, A. G. *see* Das, S. K., 90c:26010

Das, S. K. (with Das, A. G.) Generalized Laplace Stieltjes integral. 90c:26010

D'yachkov, A. M. Conditions for the existence of Stieltjes integral of functions of bounded generalized variation. (Russian summary) 90c:26011

Ene, Vasile Semicontinuity conditions and monotonicity. 90d:26018

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Gurzau, G. (with Gurzau, O. M.) A generalization of the convexity. (Romanian summary) 90c:26006

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Onian, G. T. Topological characterization of some classes of continuous functions whose Fourier series converge uniformly. (Russian. English and Georgian summaries) 90c:42009

Pawlak, Ryszard Jerzy Variation of Darboux functions. 90c:26021

Pucci, Patrizia *see* Cesari, Lamberto, 90c:49002

Schwabik, Stefan Generalized differential equations: special results. (Russian summary) 90c:34003

Upton, C. J. F. Some new classes of almost periodic functions. 90m:42018

Waterman, Daniel *see* Isaza, P., 90c:42006

26A46 Absolutely continuous functions

Dzhavator, D. K. *see* Zagirov, N. Sh., 90c:26011

Zagirov, N. Sh. (with Dzhavator, D. K.) Constructive characterization of the class $AC_{\mathcal{M}}$. (Russian) 90c:26011

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Das, A. G. *see* Das, Usha, 90c:26031

Das, Usha (with Das, A. G.) A new characterization of k -fold Lebesgue integral. 90c:26031

Ene, Vasile Semicontinuity conditions and monotonicity. 90d:26018

— Answers to three questions of J. Foran: "Continuous functions—a survey" [Real Anal. Exchange 2 (1976/77), no. 2, 85–103; MR 58 #22429]. 90c:26009

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Wilansky, Albert On the proof of the Radon-Nikodým theorem. (Not in MR)

26A48 Monotonic functions, generalizations

Ene, Vasile Semicontinuity conditions and monotonicity. 90d:26018

— A theorem which implies both Tolstov's theorem and Zahorski's theorem on monotonicity. 90c:26011

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Freiling, C. Symmetric derivatives, scattered, and semi-scattered sets. 90c:26003

Simon, Károly Locally increasing points of nowhere differentiable functions. 90c:26022

Trokhimchuk, Yu. Yu. Differentiable mappings with singularities. (Russian) 90c:26009

26A51 Convexity, generalizations

Adamović, Dušan D. (with Pečarić, Josip E.) On Nanson's inequality and on some inequalities related to it. 90c:26009

Bucolich, Z. Sets of convexity of continuous functions. 90c:26036

— Ramsey type theorems for real functions. 90c:26012

Dragomir, S. S. On logarithmically convex functions. (Romanian summary) 90a:26017

Gurzau, G. (with Gurzau, O. M.) A generalization of the convexity. (Romanian summary) 90c:26006

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Hamburger, Christoph A characterization for rank-one-convexity in two dimensions. (Italian summary) 90c:26019

Jovanović, Mirko S. On strong quasiconvex functions and boundedness of level sets. 90c:26018

Kominek, Z. (with Kuczma, Marek) On the lower hull of convex functions. 90c:26012

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Kuhn, Norbert On the structure of (s, t) -convex functions. 90c:26013

Lai, Han Ch'ing (with Lin, Lai Ch'ing) The Fenchel-Moreau theorem for set functions. 90c:26014

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Popović, Elena Sur certains moments significatifs dans le développement de la théorie des fonctions convexes. [On certain significant moments in the development of the theory of convex functions] 90c:26019

— Sur certains problèmes de recherche dans la théorie de l'allure. [Some research problems in the theory of allure] 90c:26037

Precup, Radu Sur une théorie de l'allure et ses conséquences. [On a theory of allure and its consequences] 90c:26020

— Fonctions convexes et fonctionnelles de forme simple. [Convex functions, and functionals of simple form] 90c:26020

Stojanović, Nebojka M. *see* Milovanović, Igor Ž., et al., 90j:26013

Toader, Gh. On the convexity of order two of functions. 90c:26038

— Some aspects of convexity of functions and of sequences. 90c:26039

Yu, Fu De A theorem on convex functions. (Chinese. English summary) 90c:26010

Items with secondary classifications in 26A51

Bourgin, Richard D. (with Renz, Peter L.) Shortest paths in simply connected regions in \mathbb{R}^2 . 90c:52021

Buhăescu, T. T. On an order relation between fuzzy numbers and fuzzy functions convexity. 90c:03046

(Delbosco, D.) *see* Pečarić, Josip E., 90c:46026

Gurzau, Mircea Octavian A generalization of the convexity. II. 90c:46016

Gurzau, O. M. The convex I -functions. (Romanian summary) 90c:26013

Jenić, Radovan R. *see* Pečarić, Josip E., 90c:46026

Kominek, Z. (with Kuczma, Marek) Theorems of Bernstein-Doetsch, Piccard and Mehdi and semilinear topology. 90c:46017

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Parnami, J. C. (with Vasudeva, H. L.) Homogeneity sets for mid-convex functions. 90c:26027

Pečarić, Josip E. (with Janić, Radovan R.) Some remarks on the paper: "Sur une inégalité de la norme" of D. Delbosco [Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No. 678-715(1980), 206–208; MR 82i:46021]. (Serbo-Croatian summary) 90c:46026

Ralph, W. J. Inequalities and semigroups. 90c:26017

Raja, I. A note on Jensen's inequality. 90c:26026

Renz, Peter L. *see* Bourgin, Richard D., 90c:52021

Toader, Gh. Some generalizations of Jensen's inequality. 90c:26018

— Discrete convexity cones. 90c:40005

Vasudeva, H. L. *see* Parnami, J. C., 90c:26027

26A99 None of the above, but in this section

Dogoński, Antoni (with Natkaniec, Tomasz) Simple examples of lattices generated by some families of functions. (Polish. English summary) 90d:26021

Dubuc, Serge (with Elgortobi, Abdelkader) Valeurs extrêmes de fonctions fractales.

[Extreme values of fractal functions] 90c:26040

Elgortobi, Abdelkader *see* Dubuc, Serge, 90c:26040

Khudai-Verenov, M. G. The structure of countable sets. (Russian) 90d:26022

Marcus, Solomon Symmetry in the simplest case: the real line. 90c:26021

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Satimov, N. Ya. Zeros of some families of functions. (Russian) 90j:26014

Terékhlina, E. Yu. On the change of variable in the LG^* -integral and on the Cauchy LG^* -integral. (Russian) (see 90m:00040)

Items with secondary classifications in 26A99

Bass, Jean Limites de moyennes. [Mean value limits] 90c:42019

Bojarsky, Abraham *see* Góra, P., et al., 90b:58147

Chen, Qing Yi Integrals of oscillatory functions with a parameter. (Chinese. English summary) 90d:42002

Dickmeis, W. (with Mevissen, H.; Nessel, R. J.; van Wickeren, E.) Sequential convergence and approximation in the space of Riemann integrable functions. 90c:41017

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Ma, Wen Xiu On periodic functions without a least positive period. (Chinese) 90c:26001

Mevissen, H. (with Nessel, R. J.; van Wickeren, E.) A quantitative Bohman-Korovkin theorem and its sharpness for Riemann integrable functions. (German and Russian summaries) 90c:41016

— *see also* Dickmeis, W.; et al., 90c:41017

Nessel, R. J. *see* Mevissen, H.; et al., 90c:41016 and Dickmeis, W.; et al., 90c:41017

Petruska, G. On a functional equation with retarded mean. 90c:39011

Proppe, H. *see* Góra, P.; et al., 90b:58147

van Wickeren, E. *see* Mevissen, H.; et al., 90c:41016 and Dickmeis, W.; et al., 90c:41017

26Bxx Functions of several variables

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Flanders, Harje ★ Differential forms with applications to the physical sciences. 90k:53001

26B05 Continuity and differentiation questions

Berchyan, O. Ya. Differentiation of multiple integrals by bases that are generated by cones. (Russian) (see 90i:00006)

Carballido, José Feo. (with de la Villa, Agustín) Homothetic sets: a covering problem in \mathbb{R}^n . (see 90g:28001)

Carrese, Rosalba On the algebra generated by derivatives of interval functions. 90c:26022

— An extension theorem of Baire 1 functions of several variables. 90j:26015

Cater, F. S. Changing the order of partial differentiation. 90c:26023

Dem'yanov, V. F. Codifferentiable functions. 90d:26023

Emel'yanov, V. F. (with Rubnich, B. A.) A criterion for differentiability. (Russian) 90c:26012

- Hiriart-Urruty, Jean-Baptiste (with Seeger, Alberto) The second-order subdifferential and the Dupin indicatrices of a nondifferentiable convex function. 90c:26041
- Isakov, N. M. The C^1 -property and approximately differentiable functions. 90c:26042
- A set of discontinuity points of a function that is essentially continuous. (Russian) 90h:26013
- Jinadasa, K. G. see Tracy, D. S., 90m:26019
- Kärner, T. W. A dense arcwise connected set of critical points—molehills out of mountains. 90f:26011
- Mureşan, Tr. n -dimensional mean-value theorems. (Romanian. French summary) 90a:26019
- Nekvinda, Aleš (with Zajíček, Luděk) A simple proof of the Rademacher theorem. (Russian and Czech summaries) 90c:26043
- Pawlak, Helena On continuity and monotonicity of Darboux functions. (Russian and Czech summaries) 90g:26007
- Romanov, A. S. A capacity analogue for the Lebesgue theorem on the differentiation of an integral. 90h:26014
- Rubnick, B. A. see Emel'yanov, V. F., 90b:26012
- Seeger, Alberto see Hiriart-Urruty, Jean-Baptiste, 90c:26041
- Sizak, Włodzisław A. On preponderantly equicontinuous collections of transformations. (Polish summary) 90c:26044
- Tracy, D. S. (with Jinadasa, K. G.) Patterned matrix derivatives. (French summary) 90m:26019
- de la Villa, Agustín see Carballido, José Fco., (90g:28001)
- Yang, Qi Yuan (with Zhou, Wei Chu) A discussion of sufficient conditions for conditional extrema of multivariate functions. (Chinese. English summary) 90k:26015
- Zajíček, Luděk see Nekvinda, Aleš, 90c:26043
- Zhou, Wei Chu see Yang, Qi Yuan, 90k:26015

Items with secondary classifications in 26B05

- Canavati, José A. On the extension of smooth functions by means of orthogonal polynomials. 90c:26017
- Correa, Rafael (with Jofré, A.) Tangentially continuous directional derivatives in nonsmooth analysis. 90h:49009
- Grande, Zbigniew (with Strońska, Ewa) Sur la mesurabilité de fonctions quasi-continues. (Polish summary) [On the measurability of quasicontinuous functions] 90k:28004
- Sur les fonctions approximativement quasi-continues. [On approximately quasicontinuous functions] 90c:26006
- Grosse-Erdmann, Karl-Goswin An extension of the Steinhaus-Weil theorem. 90k:28014
- Handschug, Michael On the class of equivalent quasi-differentials. 90k:90135
- Jofré, A. see Correa, Rafael, 90h:49009
- Kawasaki, Hidefumi The upper and lower second order directional derivatives of a sup-type function. 90a:90171
- Osborne, M. Scott (with Warner, Garth) On the Dini calculus. II. 90h:42018
- Parthasarathy, T. (with Ravindran, G.) Completely mixed games and global univalence in convex regions. 90f:90180
- Rapcsák, Tamás ★ On pseudolinear functions. 90k:90124
- Ravindran, G. see Parthasarathy, T., 90f:90180
- Strońska, Ewa see Grande, Zbigniew, 90k:28004
- Uryas'ev, S. P. Differentiability of an integral over a set defined by an inclusion. 90k:26015
- Vojtáček, Stanislav Some applications of the mean value theorem. 90f:65042
- Warner, Garth see Osborne, M. Scott, 90h:42018
- Wulbert, Daniel Liapounov's and related theorems. 90m:46074
- Xiao, Yi Min A decomposition theorem for infinitely differentiable functions of two variables. (Chinese) 90c:26042
- Ziemer, William P. Uniform differentiability of Sobolev functions. 90f:46054

26B10 Implicit function theorems, Jacobians, transformations with several variables

- Pshenichnyi, B. N. Implicit function theorems for multi-valued mappings. 90k:26016
- Items with secondary classifications in 26B10
- Kurokawa, Takahide Integral representation of smooth functions in weight classes and its application. 90a:46074
- Meisters, Gary Hosler (with Olech, Czesław) Solution of the global asymptotic stability Jacobian conjecture for the polynomial case. 90h:58135
- Olech, Czesław see Masters, Gary Hosler, 90h:58135
- Torriani, Hugo H. Constructive implicit function theorems. 90h:05017

26B12 Calculus of vector functions

- Dorogovtsev, A. Ya. Elements of the analysis of vector functions. (Russian) 90m:26020
- Hiriart-Urruty, Jean-Baptiste (with Seeger, Alberto) Calculus rules on a new set-valued second order derivative for convex functions. 90c:26024
- Seeger, Alberto see Hiriart-Urruty, Jean-Baptiste, 90c:26024
- Items with secondary classifications in 26B12
- Malheiros, Euclides Braga see Sanches, Adhemar, 90i:58012
- McClure, J. P. (with Wong, Roderick) Asymptotic expansion of a double integral with a curve of stationary points. 90b:41052
- Sanches, Adhemar (with Malheiros, Euclides Braga) Determining the absolute maximum point of a quadratic polynomial function of three variables in the region $A \subset \mathbb{R}^n$ when the function has a saddle point. (Portuguese. English summary) 90i:58012
- Wong, Roderick see McClure, J. P., 90b:41052

26B15 Integration: length, area, volume [see also 28A75, 51M25]

- Dzierżbicka-Mazurkiewicz, Krystyna Les intégrales paramétriques multiples dépendant des dérivées du second ordre. [Multiple parametric integrals that depend on second-order derivatives] 90d:26024

- M'khalif, A. On a generalized multiple integral and the divergence theorem. 90c:26025

Items with secondary classifications in 26B15

- Bockman, S. F. Generalizing the formula for areas of polygons to moments. 90c:51026
- Cianchi, Andrea On relative isoperimetric inequalities in the plane. (Italian summary) 90c:28007
- Iri, Masao see Kishimoto, Kazuo², 90j:00034
- Kishimoto, Kazuo² (with Iri, Masao) A practical approach to the definition and measurement of "length". 90j:00034
- Leonard, I. E. A sequence of multiple integrals. 90c:05006
- Smith, David J. (with Vamanamurthy, Marina K.) How small is a unit ball? 90c:51029
- Vamanamurthy, Marina K. see Smith, David J., 90c:51029

26B20 Integral formulas (Stokes, Gauss, Green, etc.)

- Brockett, T. E. (with Kim, Myung-Hwan²; Park, Jong-Hwan) Limiting forms for surface singularity distributions when the field point is on the surface. 90a:26020
- Jurkat, Wolfgang B. (with Nonnenmacher, D. J. F.) The general form of Green's theorem. 90k:26017
- Kim, Myung-Hwan² see Brockett, T. E.; et al., 90a:26020
- Nonnenmacher, D. J. F. see Jurkat, Wolfgang B., 90k:26017
- Ortel, Marvin (with Schneider, Walter J.) A parametric Gauss-Green theorem in several variables. 90f:26012
- Park, Jong-Hwan see Brockett, T. E.; et al., 90a:26020
- Pfeffer, W. F. The Gauss-Green theorem. 90c:26026
- Schneider, Walter J. see Ortel, Marvin, 90f:26012
- Uryas'ev, S. P. Differentiability of an integral over a set defined by an inclusion. 90k:26015

Items with secondary classifications in 26B20

- Herold, H. Eine Anwendung des Gaußschen Integralsatzes. [An application of the Gaussian integral theorem] 90a:30005
- M'khalif, A. On a generalized multiple integral and the divergence theorem. 90c:26025
- Pfeffer, W. F. On the generalized Riemann integral defined by means of special partitions. 90d:26014
- Zhou, Yun Shi Higher-dimensional Euler-Maclaurin summation formulas. (Chinese. English summary) 90b:40007

26B25 Convexity, generalizations

- Anija, Sebastian² A characterization of the mean value equality in convex analysis. 90i:26016
- Castagnoli, Erio (with Mazzoleni, Piera) Scalar and vector generalized convexity. 90m:26021
- (with Mazzoleni, Piera) About derivatives of some generalized concave functions. 90k:26018
- Cavazzuti, E. (with Pacchiarotti, N.) Compactness and boundedness for a class of concave-convex functions. 90m:26022
- Cojocaru, Ion On ϕ m (ϕ -mean)- d -convex functions. 90c:26045
- Ferrero, O. Convexity conditions for a function defined on a polyhedron, and applications. (Italian. English summary) 90f:26013
- Frommer, Andreas Continuity and differentiability of order-convex functions on \mathbb{R}^n . (German and Russian summaries) 90c:26046
- Guseinov, F. V. Continuity of quasiconvex functions and a theorem on quasiconvexity. (Russian. English and Azerbaijani summaries) 90c:26047
- Kang, Bo (with Liu, Guang Zhong) Some properties of $(r - \phi)$ -convex functions. (Chinese. English summary) 90j:26016
- Li, Bao Xiu The definition and properties of arcwise quasiconvex functions. (Chinese. English summary) 90j:26017
- Liu, Guang Zhong Criteria for a class of generalized convex functions. (Chinese. English summary) 90j:26018
- see also Kang, Bo, 90j:26016
- Mazzoleni, Piera see Castagnoli, Erio, 90k:26018 and 90m:26021
- Pacchiarotti, N. see Cavazzuti, E., 90m:26022
- Parnami, J. C. (with Vasudeva, H. L.) Homogeneity sets for mid-convex functions. 90c:26027
- de Sá, Eduardo Marques A convexity lemma on the interlacing inequalities for invariant factors. 90d:26025
- Schöpf, Peter Moments of convex and monotone functions. 90i:26017
- Shimoda, Norio On the variation inequality and its applications. (Japanese) 90h:26015
- Vasudeva, H. L. see Parnami, J. C., 90c:26027

Items with secondary classifications in 26B25

- Auslender, A. A. (with Crouzeix, J.-P.) Well-behaved asymptotical convex functions. 90j:26020
- Beer, Gerald (with Lucchetti, Roberto) Minima of quasi-convex functions. 90i:49010
- Infima of convex functions. 90a:90143
- Butz, Arthur R. Rank order smoothers with two-dimensional data model. 90a:94007
- Castagnoli, Erio (with Mazzoleni, Piera) Towards a unified type of concavity. 90f:90105
- Chaljub-Simon, Alice (with Volkmann, Peter) Remark on Hahn-Banach theorems. (Spanish) 90b:46020
- Crouzeix, J.-P. see Auslender, A. A., 90j:26020
- Dahmeu, Wolfgang (with Micchelli, Charles A.) Convexity of multivariate Bernstein polynomials and box spline surfaces. 90g:41005
- Fukushima, Masao see Tanaka, Yoshihiro; et al., 90m:90261
- Gardiner, Stephen J. Convexity and subharmonicity. 90i:31013
- Hiriart-Urruty, Jean-Baptiste (with Seeger, Alberto) Calculus rules on a new set-valued second order derivative for convex functions. 90c:26024
- (with Seeger, Alberto) The second-order subdifferential and the Dupin indicatrices of a nondifferentiable convex function. 90c:26041

- Horsley, Anthony (with Wrobel, Andrzej J.) Subdifferentials of convex symmetric functions: an application of the inequality of Hardy, Littlewood, and Pólya. 90b:46090
- Hu, Te Chiang (with Klee, Victor; Larman, David) Optimization of globally convex functions. 90m:90223
- Ibaraki, Toshihide (with Tanaka, Yoshihiro; et al., 90m:90261)
- Klee, Victor (with Hu, Te Chiang; et al., 90m:90223)
- Komuro, Naoto On basic properties of convex functions and convex integrands. 90b:49008
- Larman, David (with Hu, Te Chiang; et al., 90m:90223)
- Lacchetti, Roberto (with Beer, Gerald, 90b:49010)
- Martinez-Legaz, J.-E. On lower subdifferentiable functions. 90m:90224
- Mazoleni, Piera (with Castagnoli, Elio, 90b:90105)
- Michelli, Charles A. (with Dahmen, Wolfgang, 90b:41005)
- Peng, Xia Ping An extension of an inequality for functions of several variables. (Chinese) 90c:26066
- Penot, J.-P. (with Volle, M.) Another duality scheme for quasiconvex problems. 90j:90124
- Seger, Alberto (with Hiriart-Urruty, Jean-Baptiste, 90c:26041 and 90c:26024)
- Tanaka, Yoshihiro (with Fukushima, Masao; Ibaraki, Toshihide) On generalized pseudoconvex functions. 90m:90261
- Volkmann, Peter (with Chaljub-Simon, Alice, 90b:46020)
- Volle, M. (with Penot, J.-P., 90j:90124)
- Wrobel, Andrzej J. (with Horsley, Anthony, 90b:46090)

26B30 Absolutely continuous functions, functions of bounded variation

- Ambrosio, L. (with Dal Maso, Gianni) A general chain rule for distributional derivatives. 90j:26019
- Dal Maso, Gianni (with Ambrosio, L., 90j:26019)
- Dubuc, B. (with Tricot, Claude) Variation d'une fonction et dimension de son graphe. (English summary) [Variation of a function, and graph dimension] 90a:26021
- Rittgruber, Wolfgang Funktionen von beschränkter gewichteter Schwankung. [Functions of bounded weighted variation] 90b:26018
- Talalyan, A. A. (with Talalyan, F. A.) Representation of absolutely continuous functions in several variables. (Russian. English and Armenian summaries) 90b:26019
- Talalyan, F. A. (with Talalyan, A. A., 90b:26019)
- Tricot, Claude (with Dubuc, B., 90a:26021)
- Walczak, Stanisław Absolutely continuous functions of several variables and their application to differential equations. (Russian summary) 90d:26026

Items with secondary classifications in 26B30

- Blimlinger, M. (with Tichy, R. F.) Topological algebras of functions of bounded variation. I. 90k:46116
- Topological algebras of functions of bounded variation. II. 90k:46117
- David, Guy René Morceaux de graphes lipschitziens et intégrales singulières sur une surface. [Pieces of Lipschitz graphs and singular integrals on a surface] 90b:42026
- Skaug, David Feynman integrals involving quadratic potentials, stochastic integration formulas, and bounded variation for functions of several variables. 90d:28018
- Tichy, R. F. (with Blimlinger, M., 90k:46116)

26B35 Special properties of functions of several variables, Hölder conditions, etc.

- Auslender, A. A. (with Crouzeix, J.-P.) Well-behaved asymptotical convex functions. 90j:26020
- Crouzeix, J.-P. (with Auslender, A. A., 90j:26020)
- Dubuc, B. On Takagi fractal surfaces. 90b:26020
- Gulevich, S. A. Multiplicity of a mapping from a plane into a plane. (Russian) (see 90k:00005)
- Jones, Peter Wilcox Lipschitz and bi-Lipschitz functions. 90b:26016
- Pawlak, Ryszard Jerzy Variation of Darboux functions. 90k:26021
- Pu, H. H. (with Pu, H. W., 90k:26022)
- Pu, H. W. (with Pu, H. H.) Uniform limits of Darboux functions on the Euclidean plane. 90k:26022

Items with secondary classifications in 26B35

- Alvino, A. (with Trombetti, G.; Lions, P.-L.) On optimization problems with prescribed rearrangements. 90c:90236
- Boghossian, Artin B. (with Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. 90c:26040
- Dobol, Josef On extremal values of continuous monotone functions. 90m:54019
- Dong, Qun Ming On second-order sufficient conditions for $C^{1,1}$ function minimization and a further discussion on the Hiriart-Urruty problem. (Chinese. English summary) 90d:90072
- Horiata, Kazuhiro Pointwise property of L^p -functions with Nikol'skii condition. (Italian summary) 90m:46057
- Johnson, P. D., Jr. (with Boghossian, Artin B., 90c:26040)
- Lions, P.-L. (with Alvino, A.; et al., 90c:90236)
- Ortel, Marvin (with Schneider, Walter J.) A parametric Gauss-Green theorem in several variables. 90b:26012
- Pawlak, Ryszard Jerzy On Świątkowski functions. (Polish summary) 90c:26015
- Schneider, Walter J. (with Ortel, Marvin, 90b:26012)
- Temnyakov, V. N. On estimates of ε -entropy and widths of classes of functions with a bounded mixed derivative or difference. 90c:41012
- Trombetti, G. (with Alvino, A.; et al., 90c:90236)
- Vodop'yanov, S. K. ★ Формула Тейлора и функциональные пространства. (Russian) [Taylor's formula and function spaces] 90b:46038
- Intrinsic geometries and boundary values of differentiable functions. I. 90j:46039

26B40 Representation and superposition of functions

- Borzi, C. (with Frisch, H. L.; et al., 90b:26014)
- Caligaris, Ottavio Measurable representation of biconjugate integrands. 90b:26019
- Frisch, H. L. (with Borzi, C.; Ord, G.; Percus, J. K.; Williams, G. O.) Approximate representation of functions of several variables in terms of functions of one variable. 90b:26014
- Gokhman, A. O. Smooth symmetric functions. 90b:26017
- Ord, G. (with Frisch, H. L.; et al., 90b:26014)
- Percus, J. K. (with Frisch, H. L.; et al., 90b:26014)
- Williams, G. O. (with Frisch, H. L.; et al., 90b:26014)

Items with secondary classifications in 26B40

- Madych, W. R. (with Solmon, D. C.) A range theorem for the Radon transform. 90i:44003
- Páles, Z. (with Volkmann, Peter) Characterization of a class of means. 90k:39008
- Sokolova, T. V. Structure of mappings with bounded distortion that are close to conformal. 90c:26067
- Solmon, D. C. (with Madych, W. R., 90i:44003)
- Volkmann, Peter (with Páles, Z., 90k:39008)

26B99 None of the above, but in this section

- El-Shazly, M. S. (with Okb El-Bab, A. S., 90c:26049)
- Lǐ, Yu² Symmetric groups of M -functions. (Chinese) 90c:26048
- Mirtchev, Ivan A. (with Shtrakov, Sl.) Strongly dominating sets of variables. (Hungarian summary) 90a:26022
- Dominating and c -separable sets of variables for the functions. (Bulgarian. English summary) 90c:26028
- Okb El-Bab, A. S. (with El-Shazly, M. S.) Integral representation of negative-definite functions of infinitely many variables. 90c:26049
- Páles, Z. On homogeneous quasideviation means. 90c:26050
- Shtrakov, Sl. (with Mirtchev, Ivan A., 90a:26022)

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- Audoly, S. (with D'Angiò, L.) Some properties of a class of mappings of \mathbb{R}^n into \mathbb{R}^m and their implications for particular systems of algebraic equations. (Italian. English summary) 90b:26013
- Berenstein, Carlos A. (with Gay, Roger) Le problème de Pompeiu local. (English summary) [The local Pompeiu problem] 90c:31005
- Blaga, Aurel P. (with Muntean, Ioan) Classifications of some sets of real functions on a vector space. 90d:46071
- D'Angiò, L. (with Audoly, S., 90b:26013)
- Gay, Roger (with Berenstein, Carlos A., 90c:31005)
- Jormakka, Jorma The existence of quasiregular mappings from \mathbb{R}^3 to closed orientable 3-manifolds. 90b:57005
- Muntean, Ioan (with Blaga, Aurel P., 90d:46071)

26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, inequalities, etc.

- Altier, M. S. Zeros of polynomials in linearly independent systems of continuous functions. (Russian) 90b:26015
- Audoly, S. (with D'Angiò, L.) Some properties of a class of mappings of \mathbb{R}^n into \mathbb{R}^m and their implications for particular systems of algebraic equations. (Italian. English summary) 90b:26013
- Bailey, D. F. (with Fix, George J.) A generalization of the mean value theorem. 90c:26051
- Berger, C. S. (with Soh, C. B., 90c:26054)
- (Boas, Ralph P.) (with Krein, M. G.; et al., 90b:26016)
- D'Angiò, L. (with Audoly, S., 90b:26013)
- Drmot, M. Abschätzungen ganzzahliger Polynome auf dem Intervall $[0, 1]$. [Estimates of integral polynomials on the interval $[0, 1]$] 90b:26018
- Ermakov, A. I. An estimate for the derivative of algebraic polynomials and entire functions of a finite degree in S. N. Bernstein's class. (Russian) (see 90b:00005)
- Fix, George J. (with Bailey, D. F., 90c:26051)
- Ghosh, Sankar On characterisation of polynomials of degree two through some of their properties. 90c:26052
- Ivanov, Kamen G. (with Totik, V.) Fast decreasing polynomials. 90k:26023
- Kovačević, Milan A. (with Milovanović, Igor Ž., 90i:65008)
- Krein, M. G. (with Levin, B. Ya.; Nudel'man, A. A.) On a special representation of polynomials that are positive on a system of closed intervals. 90b:26016
- Levin, B. Ya. (with Krein, M. G.; et al., 90b:26016)
- Meschaninov, D. G. Some properties of a superstructure of a class of polynomials in P_k . 90c:26053
- Milovanović, Gradimir V. (with Milovanović, Igor Ž.) An extremal problem for polynomials with nonnegative coefficients. III. 90b:26019
- Milovanović, Igor Ž. (with Kovačević, Milan A.) An extremal problem for real algebraic polynomials. (see 90b:65008)
- see also Milovanović, Gradimir V., 90b:26019
- Nudel'man, A. A. (with Krein, M. G.; et al., 90b:26016)
- Reddy, A. R. Note on a result of Erdős. 90m:26023
- Soh, C. B. (with Berger, C. S.) Damping ratio of polynomials with perturbed coefficients. 90c:26054
- Totik, V. (with Ivanov, Kamen G., 90k:26023)
- Items with secondary classifications in 26C05
- Barbeau, E. J. ★ Polynomials. 90b:12001

- Boghossian, Artin B. (with Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. 90e:26040
- Bui Doan, Khanh (with Sunyach, Christian) Polynômes à phase minimale en deux variables. (English summary) [Minimum-phase polynomials in two variables] 90d:32013
- Bukhnikashvili, I. A. Polynomials that deviate least from zero and that have a zero derivative at a fixed point. (Russian) 90b:41011
- Bustoz, Joaquín (with Ismail, E. H. Mourad) A positive trigonometric sum. 90e:33002
- Ismail, E. H. Mourad see Bustoz, Joaquín, 90e:33002
- Johnson, P. D., Jr. see Boghossian, Artin B., 90e:26040
- Katkoza, O. M. A method for constructing Pólya frequency sequences. (Russian) 90b:05013
- Rahman, Q. I. (with Schmeisser, G.) Markoff type inequalities for curved majorants. 90k:41022
- Schmeisser, G. see Rahman, Q. I., 90k:41022
- Sunyach, Christian see Bui Doan, Khanh, 90d:32013
- Van Assche, Walter Orthogonal polynomials: bounded versus unbounded spectrum. 90g:41047

26C10 Polynomials: location of zeros [see also 12D10, 30C15, 65H05]

- Lepschy, A. (with Mian, G. A.; Viano, U.) A geometrical interpretation of the Routh test. 90e:26029
- Mian, G. A. see Lepschy, A.; et al., 90e:26029
- Nguyễn Thị Thiên Hoa The oscillation property of the operator $D(D^2 + 1)^2 \cdots (D^2 + n^2)$ and its applications. 90g:26008
- Viano, U. see Lepschy, A.; et al., 90e:26029

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- Barbeau, E. J. ★ Polynomials. 90f:12001
- Bidkham, M. (with Dewan, K. K.) Bounds for the zeros of polynomials. 90f:30008
- Craven, Thomas C. (with Csordas, G.) Jensen polynomials and the Turán and Laguerre inequalities. 90a:26035
- Csordas, G. see Craven, Thomas C., 90a:26035
- Dewan, K. K. see Bidkham, M., 90f:30008
- Miller, Michael J. Maximal polynomials and the Ilieff-Sendov conjecture. 90m:30007
- Möbius, Michael Das Theorem von Sturm und seine (Wieder-)Entdeckung für den Mathematikunterricht. [Sturm's theorem and its (re-)discovery for the teaching of mathematics] 90k:12002

26C15 Rational functions [see also 14G30]

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- Bose, N. K. (with Delansky, J. F.) Boundary implications for interval positive rational functions. 90e:30078
- Delansky, J. F. see Bose, N. K., 90e:30078
- Levrie, Paul (with Plessens, Robert) Convergence acceleration for Miller's algorithm. 90m:65012
- Improving a method for computing nondominant solutions of certain second-order recurrence relations of Poincaré-type. 90m:65013
- Plessens, Robert see Levrie, Paul, 90m:65012

26C99 None of the above, but in this section

- Manturov, O. V. (with Martynyuk, A. N.) An algorithm in the theory of a multiplicative integral. (Russian) 90f:26021
- Martynyuk, A. N. see Manturov, O. V., 90f:26021

Items with secondary classifications in 26C99

- Djebbar, Bachir see Nguyen Thanh Van, 90f:31001
- Kaplan, Wilfred On circulants. 90f:15008
- Nguyen Thanh Van (with Djebbar, Bachir) Propriétés asymptotiques d'une suite orthonormale de polynômes harmoniques. (English summary) [Asymptotic properties of an orthonormal sequence of harmonic polynomials] 90f:31001

26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39C05.}

- Mitrinović, Dragoslav S. (with Pečarić, Josip E.) ★ Diferencijalne i integralne nejednakosti. (Serbo-Croatian) [Differential and integral inequalities] 90e:26055
- Pečarić, Josip E. see Mitrinović, Dragoslav S., 90e:26055

Items with secondary classifications in 26Dxx

- Lakshmikantham, V. (with Leela, S.; Martynyuk, A. A.) ★ Stability analysis of nonlinear systems. 90b:34073
- Leela, S. see Lakshmikantham, V.; et al., 90b:34073
- Martynyuk, A. A. see Lakshmikantham, V.; et al., 90b:34073

26D05 Inequalities for trigonometric functions and polynomials

- Badalyan, G. V. (with Edigaryan, V. M.) A method for obtaining an analogue of the V. A. Markov inequality for polynomials in the metric $L^p(0, 1)$, $1 < p < \infty$. (Russian. English and Armenian summaries) 90e:26030
- Edigaryan, V. M. see Badalyan, G. V., 90e:26030
- von Goltschek, M. (with Lorentz, G. G.) Bernstein inequalities in L_p , $0 \leq p \leq +\infty$. 90b:26020
- Lorentz, G. G. see von Goltschek, M., 90b:26020

- Nadzhmaddinov, D. (with Subbotin, Yu. N.) Markov inequalities for polynomials on triangles. 90b:26021
- Subbotin, Yu. N. see Nadzhmaddinov, D., 90b:26021

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- Erdélyi, T. Weighted Markov-type estimates for the derivatives of constrained polynomials on $[0, \infty)$. 90b:41018
- Janous, Walter see Mitrinović, Dragoslav S.; et al., 90e:51027
- Logan, B. F. An interference problem for exponentials. 90a:42003
- Milovanović, Gradimir V. Various extremal problems of Markov's type for algebraic polynomials. (Serbo-Croatian summary) 90e:41010
- Mitrinović, Dragoslav S. (with Pečarić, Josip E.; Janous, Walter) Some trigonometric inequalities. (Serbo-Croatian summary) 90e:51027
- Pečarić, Josip E. see Mitrinović, Dragoslav S.; et al., 90e:51027
- Rahman, Q. I. (with Schmeisser, G.) Markoff type inequalities for curved majorants. 90k:41022
- Schmeisser, G. see Rahman, Q. I., 90k:41022
- Zhou, Song Ping A pointwise inequality for derivatives of polynomials with positive coefficients. (Chinese. English summary) 90i:41026

26D10 Inequalities involving derivatives and differential and integral operators

- Aly, E. A. see Zagharout, Afaf A. S.; et al., 90f:26023
- Aly, I. A. see Zagharout, Afaf A. S., 90f:26022a
- Aly, Z. M. M. see Zagharout, Afaf A. S., 90f:26022b and 90f:26023
- Baernstein, Albert, II Some topics in symmetrization. 90b:26022
- Batuev, E. N. (with Stepanov, V. D.) Weighted inequalities of Hardy type. 90f:26017
- Beriša, Muharem Č. see Zejnullahu, R., 90a:26027
- Boydzhiev, Khristo N. An inequality for bounds of successive derivatives. 90e:26056
- Chen, Weiyou (with Ditzian, Z.) Mixed and directional derivatives. 90b:26023
- Clausing, Achim Experimenting with operator inequalities using APL. 90f:26020
- Ditzian, Z. Multivariate Landau-Kolmogorov-type inequality. 90a:26023
- see also Chen, Weiyou, 90b:26023
- Dragomir, S. S. (with Ionescu, Nicoleta M.) The Wendroff type lemmas and applications. I. 90k:26024
- (with Ionescu, Nicoleta M.) The Wendroff type lemmas and applications. III. 90k:26026
- (with Ionescu, Nicoleta M.) The Wendroff type lemmas and applications. II. (Romanian summary) 90k:26025
- On some Gronwall type lemmas. (Romanian summary) 90k:26027
- Florkiewicz, B. On some integral inequalities of block type. 90e:26057
- Gillman, David W. (with Kaper, Hans G.; Kwong, Man Kam) L^2 -norm inequalities for the differentiation operator on compact intervals. 90a:26024
- Hsieh, Liang Ming On some generalized Opial inequalities. (Chinese summary) 90f:26018
- Ionescu, Nicoleta M. see Dragomir, S. S., 90k:26024; 90k:26025 and 90k:26026
- Kaper, Hans G. see Gillman, David W.; et al., 90a:26024
- Kong, Qing Kai (with Zhang, Bing Gen) Some generalization of Gronwall-Bihari integral inequalities and their applications. 90k:26028
- Kurokawa, Takahide Weighted norm inequalities for Riesz potentials. 90j:26022
- Kwong, Man Kam see Gillman, David W.; et al., 90a:26024
- Lin, Chin Ts'ui A note on an integrodifferential inequality. (Chinese summary) 90f:26019
- Mao, Xue Rong Lebesgue-Stieltjes integral inequalities of the Greene type in N -independent variables. 90m:26024
- Mitrea, Alexandru-Ioan The unbounded divergence of numerical differentiation for equidistant nodes. 90e:26031
- Mitrinović, Dragoslav S. (with Pečarić, Josip E.) On a method due to R. Bellman. 90e:26058
- (with Pečarić, Josip E.) A general integral inequality for the derivative of an equimeasurable rearrangement. 90g:26009
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- Pachpatte, B. G. On Wendroff like integral inequalities. 90a:26025
- On certain two-dimensional integral inequalities. 90m:26025
- Pečarić, Josip E. see Mitrinović, Dragoslav S., 90e:26058 and 90g:26009
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- Pirapakaran, Ratnam Impulsive integral inequalities of Gronwall-Bihari type. 90k:26030
- Sato, Shuichi Weighted inequalities on product domains. 90f:26021
- Seiffert, H.-J. Eine Integralungleichung für streng monotone Funktionen mit logarithmisch konvexer Umkehrfunktion. [An integral inequality for strictly monotone functions with a logarithmically convex inverse function] 90e:26059
- Sinnamon, Gordon A note on the Stieltjes transformation. 90a:26026
- A weighted gradient inequality. 90f:26020
- Stepanov, V. D. A weighted inequality of Hardy type for higher-order derivatives. (Russian) 90b:26024
- see also Batuev, E. N., 90f:26017
- Talenti, Giorgio Some inequalities of Sobolev type on two-dimensional spheres. 90k:26031
- Toader, Gh. Jensen's inequality for sequences. (Romanian summary) 90f:26021
- Vajravelu, K. see Mohapatra, Ram Narayan, 90k:26029
- Wannebo, Andreas Hardy inequalities. 90b:26025
- Zagharout, Afaf A. S. (with Aly, I. A.) On integral inequalities of Gronwall-Bellman-Reid type. I. 90f:26022a
- (with Aly, Z. M. M.) On integral inequalities of Gronwall-Bellman-Reid type. II. 90f:26022b
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- Zejnullahu, R. (with Beriša, Muharem Č.) On the modulus of continuity and smoothness in L_p . (Russian. Serbo-Croatian summary) 90a:26027
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 Carton-Lebrun, C. (with Heinig, H. P.) Weighted norm inequalities involving gradients. 90g:42035
 Czerul, Marek Stability of normal regions for linear homogeneous functional equations. 90h:39018
 Erdélyi, T. Weighted Markov-type estimates for the derivatives of constrained polynomials on $[0, \infty)$. 90b:41018
 Gariepy, Ronald F. A Caccioppoli inequality and partial regularity in the calculus of variations. 90g:49019
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 Iwamoto, S. (with Tomkins, R. J.; Wang, Chung-Lie) Inequalities and mathematical programming. III. 90k:90178
 Joshi, S. R. (with Shendge, G. R.) Integral inequalities in Banach lattices. 90j:34018
 Lakshmikantham, V. Stability results for integrodifferential equations. 90j:45028
 Lepin, A. Ya. A priori boundedness of derivatives for a system of differential inequalities. 90g:34008
 Lakashenko, T. P. (with Ryzanova, M. P.) Inequalities of weak type for the Hilbert operator. (Russian) (see 90h:00003)
 Mao, Xue Rong Lebesgue-Stieltjes integral inequalities and stochastic stabilities. 90j:60064
 Martin-Reyes, F. J. (with Sawyer, E.) Weighted inequalities for Riemann-Liouville fractional integrals of order one and greater. 90a:26012
 Matkowski, Janusz The converse of the Minkowski's inequality theorem and its generalization. 90m:39025
 Meshkov, V. Z. A weighted inequality of Hardy type for elliptic operators and its applications. 90a:35076
 Moklin, Ya. I. Estimates for the derivatives of solutions of integral equations of potential theory. 90d:31004
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 — (with Thandapani, E.) On discrete inequalities in n independent variables. 90c:26061
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- Adamović, Dušan D. (with Pečarić, Josip E.) On Nanson's inequality and on some inequalities related to it. 90f:26009
 Ariño, Miguel A. (with Muckenhoupt, Benjamin) Maximal functions on classical Lorentz spaces and Hardy's inequality with weights for nonincreasing functions. 90k:42034
 Benedetto, J. J. (with Heinig, H. P.; Johnson, Raymond L.) Fourier inequalities with A_p -weights. 90k:42015
 Bustoz, Joaquín (with Ismail, E. H. Mourad) A positive trigonometric sum. 90c:33002
 Chen, Wen Yi Log subharmonic functions and weighted Carleman inequalities. (Chinese. English summary) 90d:31021
 Daróczy, Zoltán (with Páles, Z.) Convexity with given infinite weight sequences. 90c:39020

- (Delbosco, D.) *see* Pečarić, Josip E., 90k:46026
- Heinig, H. P. *see* Benedetto, J. J.; et al., 90k:42015
- Ismail, E. H. Mourad *see* Bustoz, Joaquin, 90k:33002
- Janić, Radovan R. *see* Pečarić, Josip E., 90k:46026
- Johnson, Raymond L. *see* Benedetto, J. J.; et al., 90k:42015
- Lin, Henry Some weighted inequalities on product domains. 90k:42026
- Matkowski, Janusz The converse of the Minkowski's inequality theorem and its generalization. 90m:39025
- Mohapatra, Ram Narayan (with Vajravelu, K.) Integral inequalities resembling Copson's inequality. 90k:26029
- Muckenhoupt, Benjamin *see* Ariño, Miguel A., 90k:42034
- Páles, Z. *see* Daróczy, Zoltán, 90k:39020
- Pečarić, Josip E. (with Janić, Radovan R.) Some remarks on the paper: "Sur une inégalité de la norme" of D. Delbosco [Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No. 678-715(1980), 206-208; MR 82i:46021]. (Serbo-Croatian summary) 90k:46026
- (with Volenec, Vladimir) Interpolation of the Jensen inequality with some applications. 90k:52026
- *see also* Adamović, Dušan D., 90k:26009
- Redheffer, Ray Estimation of an integral. 90j:33017
- Schöpf, Peter Moments of convex and monotone functions. 90k:26017
- Seiffert, H.-J. Eine Integralungleichung für streng monotone Funktionen mit logarithmisch konvexer Umkehrfunktion. [An integral inequality for strictly monotone functions with a logarithmically convex inverse function] 90k:26059
- Simmons, Gordon A note on the Stieltjes transformation. 90a:26026
- Sogge, C. D. Remarks on L^2 restriction theorems for Riemannian manifolds. 90k:42047
- Stepanov, V. D. Weighted inequalities of Hardy type for higher-order derivatives and their applications. 90k:42002
- Thandapani, E. Gronwall, Bihari and Langenhop type inequalities for discrete Pfaffian equation. 90g:39020
- A sharp upper bound for discrete inequalities of Gronwall-Bellman type. 90k:39010
- Vajravelu, K. *see* Mohapatra, Ram Narayan, 90k:26029
- Volenec, Vladimir *see* Pečarić, Josip E., 90k:52026

26D20 Other analytical inequalities

- Abd-Allah, A. *see* Hamad, G. D.; et al., 90k:26069
- Agarwal, Ravi Prakash Systems of multidimensional discrete inequalities. 90d:26033
- Alzer, Horst Ungleichungen für geometrische und arithmetische Mittelwerte. [Inequalities for geometric and arithmetic means] 90a:26034
- Andrica, Dorin (with Drimbe, Mihai Onu) On some inequalities involving isotonic functionals. 90k:26068
- Brown, Gavin (with Shepp, Larry) A convolution inequality. 90j:26026
- Cibulis, Andris A simple proof of an inequality. (Russian) 90k:26037
- Craven, Thomas C. (with Cordas, G.) Jensen polynomials and the Turán and Laguerre inequalities. 90a:26035
- Cordas, G. *see* Craven, Thomas C., 90a:26035
- Drimbe, Mihai Onu *see* Andrica, Dorin, 90k:26068
- Hamad, G. D. (with Salem, Sh.; Abd-Allah, A.) On some new discrete inequalities involving the shift operator E . 90k:26069
- Huang, Jian An inequality for positive bihomogeneous functionals on a cone of a linear space. (Chinese. English summary) 90a:26036
- Pachpatte, B. G. On some new discrete inequalities in two independent variables. 90k:26040
- Pečarić, Josip E. (with Zwick, D.) n -convexity and majorization. 90k:26027
- Ralph, W. J. Inequalities and semigroups. 90k:26017
- Raja, I. A note on Jensen's inequality. 90k:26026
- Salem, Sh. *see* Hamad, G. D.; et al., 90k:26069
- Shepp, Larry *see* Brown, Gavin, 90j:26026
- Sidorenko, A. F. (with Stechkin, B. S.) A class of extremal geometric constants and their applications. (Russian) 90k:26027
- Stechkin, B. S. *see* Sidorenko, A. F., 90k:26027
- Stoyanov, Todor S. Inequalities for convex combinations of functions. (Bulgarian. English summary) 90k:26038
- Toader, Gh. Some generalizations of Jensen's inequality. 90k:26018
- An exponential mean. 90k:26070
- Wang, Chung Hsin (with Yang, Kuo Sheng) Inequalities related to the arithmetic and geometric means. 90k:26035
- Wang, Peng Fei (with Wang, Wan Lan) An inequality for symmetric functions. (Chinese. English summary) 90j:26027
- Wang, Wan Lan *see* Wang, Peng Fei, 90j:26027
- Yang, Kuo Sheng *see* Wang, Chung Hsin, 90k:26035
- Zwick, D. *see* Pečarić, Josip E., 90k:26027

Items with secondary classifications in 26D20

- Aczél, J. (with Forte, B.) Entropies, generalized entropies, inequalities, and the maximum entropy principle. 90m:94025
- (with Páles, Z.) The behaviour of means under equal increments of their variables. 90k:05015
- Cianchi, Andrea A sharp form of Poincaré type inequalities on balls and spheres. (Italian summary) 90k:49040
- Dragomir, S. S. (with Sándor, József) The Chebyshev inequality in pre-Hilbertian spaces. I. (Romanian summary) 90k:46048
- Erdélyi, T. Markov-type estimates for certain classes of constrained polynomials. 90k:41009
- Forte, B. *see* Aczél, J., 90m:94025
- Franciò, Michelangelo Weighted rearrangements and higher integrability results. 90k:42036
- Gabidashvili, M. A. Weighted inequalities for potentials in spaces of homogeneous type. (Russian. English and Georgian summaries) 90m:46055
- Kryakina, Yu. V. Whitney constants. (Russian) 90j:26024

- Laforgia, Andrea (with Sismondi, Silvana) A geometric mean inequality for the gamma function. (Italian summary) 90j:33002
- Martins, Jorge Antonio Sampaio Arithmetic and geometric means, an application to Lorentz sequence spaces. 90k:40002
- Páles, Z. *see* Aczél, J., 90k:05015
- Popenda, Jerzy Finite difference inequalities. 90k:39006
- Post, K. A. A note on means. 90j:26025
- Sándor, József *see* Dragomir, S. S., 90k:46048
- Sebestyén, Z. A general minimax inequality and its consequences. 90k:90148
- Sismondi, Silvana *see* Laforgia, Andrea, 90j:33002
- Tortorelli Macaluso, Adele Generalization of some inequalities for the gamma function. (Italian. English summary) 90k:33004

26D99 None of the above, but in this section

- Aczél, J. (with Losonczi, L.; Páles, Z.) The behaviour of comprehensive classes of means under equal increments of their variables. 90k:26028
- Alzer, Horst Über den Quotienten spezieller Mittelwerte. [On the quotient of special means] 90k:26039
- Giroto, Bruno (with Holzer, Silvano) Some de Finetti-Kolmogoroff-Nagumo type integral representation theorems for means on masses. (Italian summary) 90j:26028
- Gmeiner, W. (with Janous, Walter) A pair of general triangle inequalities. 90d:26034
- Holzer, Silvano *see* Giroto, Bruno, 90j:26028
- Janous, Walter *see* Gmeiner, W., 90d:26034
- Losonczi, L. *see* Aczél, J.; et al., 90k:26028
- Milošević, D. M. Some inequalities for the triangle. (Serbo-Croatian summary) 90k:26029
- Neuman, E. Inequalities involving multivariate convex functions. II. 90k:26041
- Páles, Z. *see* Aczél, J.; et al., 90k:26028

Items with secondary classifications in 26D99

- Kurtz, Douglas S. Operator estimates using the sharp function. 90g:42036
- Otsuki, Tomiotsuke Certain inequalities related with a nonlinear differential equation. III. 90k:34068

26Exx Miscellaneous topics [see also 58Cxx]

26E05 Real-analytic functions

- Boghossian, Artin B. (with Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. 90k:26040
- Johnson, P. D., Jr. *see* Boghossian, Artin B., 90k:26040
- Marchiò, Carla *see* Pasini, Leonardo, 90k:26030
- Miller, John D. Finding the zeros of an analytic function. 90k:26019
- Pasini, Leonardo (with Marchiò, Carla) Exponentially and logarithmically closed Hardy fields in several variables. 90k:26030
- Rogulski, Jan Stanisław Contributions to the theory of para-analytic functions. 90d:26035
- Items with secondary classifications in 26E05
- Cucker, Felipe Nash functions over real spectra. 90k:14026
- van den Dries, Lou Convergent series expansions of a new type for exponential functions. 90k:12003
- Kucharz, W. Sums of $2n$ th powers of real meromorphic functions. 90k:14013
- Lugvinenko, V. N. Conditions of boundedness and conditions of slow growth along a real hyperplane of entire functions of exponential type. 90k:32003

26E10 C^∞ -functions, quasi-analytic functions

- Buczolich, Z. Functions with finite intersections with analytic functions. 90k:26031
- Ha Huy Bang A property of infinitely differentiable functions. 90j:26029
- Ider, Mostéfa On the superposition of functions in Carleman classes. 90k:26042
- *see also* Siddiqi, Jamil A., 90k:26036
- Iri, Masao *see* Kabaya-Imai, Keiko, 90k:26032
- Kabaya-Imai, Keiko (with Iri, Masao) On operators defining a family of nonanalytic C^∞ -functions. 90k:26032
- McLeod, Robert M. (with Meisters, Gary Hosler) Smooth polynomial paths with nonanalytic tangents. 90k:26020
- Meisters, Gary Hosler *see* McLeod, Robert M., 90k:26020
- Pawlucki, Wiesław (with Pleśniak, Wiesław) Approximation and extension of C^∞ functions defined on compact subsets of \mathbb{C}^n . 90k:26041
- Pleśniak, Wiesław *see* Pawlucki, Wiesław, 90k:26041
- Schnabl, R. Über eine C^∞ -Funktion. (English summary) [On a C^∞ function] 90k:26043
- Siddiqi, Jamil A. (with Ider, Mostéfa) Characterization of inverse-closed Beurling classes. 90k:26036
- Xiao, Yi Min A decomposition theorem for infinitely differentiable functions of two variables. (Chinese) 90k:26042

Items with secondary classifications in 26E10

- Amemiya, Ichiro (with Masuda, Kazuo) On Joris' theorem on differentiability of functions. 90k:26005
- Belingeri, Carlo Analyticity and quasi-analyticity derived from the behavior of the coefficients of Jacobi-Fourier series expansions. (Italian. English summary) 90k:42025
- Boghossian, Artin B. (with Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. 90k:26040
- Johnson, P. D., Jr. *see* Boghossian, Artin B., 90k:26040
- Masuda, Kazuo *see* Amemiya, Ichiro, 90k:26005

26E15 Calculus of functions on infinite-dimensional spaces

Items with secondary classifications in 26E15

- Jaramillo, J. A. An example on composite differentiable functions in infinite dimensions. 90m:46042
 Pallaschke, D. (with Recht, P.) On extensions of the second-order derivative. 90k:58017
 Recht, P. see Pallaschke, D., 90k:58017

26E20 Calculus of functions taking values in infinite-dimensional spaces

- Ghosh, Sankar On term by term differentiation of Banach-space-valued functions. 90f:26028
 Kuzachenko, M. A necessary and sufficient condition for the isomorphism of multiplicative and additive systems without continuity conditions up to increasingly fine partitions. 90f:26029
 Michalski, Marek W. Remark on the formula for m th derivative of the composition of two Banach-valued functions. (Russian and Slovak summaries) 90d:26036

Items with secondary classifications in 26E20

- Dubois, Jacques (with M'Khali, A.) Propriétés et théorèmes de convergence pour une intégrale de type Riemann généralisée. (English summary) [Properties and theorems of convergence for a generalized Riemann integral] 90c:26032
 Mărzaru, E. Fonctionnelles différentiables sur des espaces localement convexes. Applications dans la théorie générale des systèmes. (Romanian summary) [Functionals differentiable on locally convex spaces. Applications in general systems theory] 90k:46096
 M'Khali, A. see Dubois, Jacques, 90c:26032

26E25 Set-valued functions [see also 54C60]

- Fryszakowski, Andrzej Carathéodory type selections of Aumann integrals. 90f:26033
 Gurzán, O. M. The convex I -functions. (Romanian summary) 90g:26013
 Lelczewicz, Arle A square shape of the graph of iterates of multifunctions: a complete controllability result. 90m:26029
 Zhang, Lian Sheng Some remarks on multivalued mappings. (Chinese. English summary) 90f:26034

Items with secondary classifications in 26E25

- Aubin, Jean-Pierre (with Wets, Roger J.-B.) Stable approximations of set-valued maps. (French summary) 90d:47065
 Bănzaru, T. (with Crivăţ, N.) On pointwise convergence and topological convergence for multifunction nets. 90c:54037
 Cardinali, Tiziana (with Papalini, Francesca) The lower and upper semicontinuity of a multifunction. (Italian. English summary) 90f:54048
 Crivăţ, N. see Bănzaru, T., 90c:54037
 Frankowska, Halina Set-valued analysis and some control problems. (see 90d:93005)
 Kaidi, Latifa see Mintchenko, L., 90h:90152
 Kindler, J. Sandwich theorems for set functions. 90d:28006
 Kisielewicz, Michał Subtrajectory integrals of set-valued functions and neutral functional-differential inclusions. 90k:34010
 Kozhaev, Sh. M. An integral of a multivalued function in a Banach space. (Russian) 90c:46034
 Lee, Sung J. (with Nashed, M. Z.) Differential inclusions, linear selections, and an optimal control problem. 90g:49028
 Lee, Tan Yu Generalized convex set functions. 90g:49009
 Mintchenko, L. (with Kaidi, Latifa) Sur les propriétés différentielles de fonctions marginales. (English summary) [The differential properties of marginal functions] 90h:90152
 Nashed, M. Z. see Lee, Sung J., 90g:49028
 Nikodem, Kazimierz Additive selections of additive set-valued functions. (Serbo-Croatian summary) (Not in MR)
 Papalini, Francesca see Cardinali, Tiziana, 90f:54048
 Pshenichnyi, B. N. Implicit function theorems for multi-valued mappings. 90k:26016
 Rockafellar, R. T. Proto-differentiability of set-valued mappings and its applications in optimization. 90k:90140
 Silin, D. B. Some properties of upper semicontinuous multivalued mappings. (Russian) 90c:49017
 Stalcu, Vasile Generalized derivatives for C^1 -parametrized multifunctions. (Italian summary) 90f:49010
 Torgashova, N. E. Modification of Kakutani's theorem and its application. 90k:54061
 Tsalyuk, V. Z. Lipschitz approximation of a multivalued function that satisfies the Carathéodory condition. (Russian) 90g:41028
 Urseacu, Cornelia Tangency and openness of multifunctions in Banach spaces. 90g:47122
 Wets, Roger J.-B. see Aubin, Jean-Pierre, 90d:47065
 Zgymunt, Wojciech The Scorza-Dragoni's type property and product measurability of a multifunction of two variables. (Italian summary) 90c:28010

26E30 Non-Archimedean analysis [see also 12J25]

- Rangan, G. (with Selvamuthu, V.) Darboux continuous functions on non-Archimedean valued fields. 90c:26071
 Selvamuthu, V. see Rangan, G., 90c:26071

Items with secondary classifications in 26E30

- André, Yves Spécialisation dans les disques singuliers réguliers. [Specialization in regular singular discs] 90f:12008
 Thiran, E. (with Versteegen, D.; Weyers, J.) p -adic dynamics. 90c:58088
 Versteegen, D. see Thiran, E.; et al., 90c:58088
 Weyers, J. see Thiran, E.; et al., 90c:58088

26E35 Nonstandard analysis [see also 03H05]

- Impens, Chris Propagation of microcontinuity for nonstandard polynomials. 90f:26035
 — Real functions as traces of infinite polynomials. 90f:26030
 Kudrik, T. S. see Lyantse, V. É., 90g:26014
 Lyantse, V. É. (with Kudrik, T. S.) Functions of a discrete variable. (Russian) 90g:26014
 Thompson, Christopher L. Nonstandard continuity and uniform convergence. (Not in MR)

Items with secondary classifications in 26E35

- Callot, Jean-Louis Les graphes des itérés de $f_\lambda(x) = \lambda x(1-x)$. [The graphs of iterates of $f_\lambda(x) = \lambda x(1-x)$] (see 90j:03116)
 van Dalen, D. Infinitesimals and the continuity of all functions. 90h:03051
 Diener, Marc Une initiation aux outils non standard fondamentaux. [An introduction to the fundamental tools of nonstandard analysis] (see 90j:03116)
 Gordon, E. I. Nonstandard finite-dimensional analogues of operators in $L_2(\mathbb{R}^n)$. 90a:47054
 — Relatively standard elements in E. Nelson's internal set theory. 90f:03073
 Kinoshita, Moto-o Nonstandard representations of distributions. I. 90b:46080
 Krishna, J. Gopala (with Usha Sree Devi, M.) On a nonstandard approach to asymptotics of Laplace transforms and to Watson's lemma. 90c:44002
 Li, Bang He (with Zhang, Ji Jiang) Skies and monads. 90f:03074
 Loos, Ottmar A nonstandard approach to the Lebesgue integral. 90f:03114
 Richardson, Daniel Nonstandard models of the theory of elementary functions of a real variable. 90a:03009
 Richter, M. M. (with Szabo, M. E.) Nonstandard methods in combinatorics and theoretical computer science. 90g:03068
 Szabo, M. E. see Richter, M. M., 90g:03068
 Usha Sree Devi, M. see Krishna, J. Gopala, 90c:44002
 Zahn, Peter Supplements to: "A predicative approach to nonstandard mathematics" [Z. Math. Logik Grundlag. Math. 33 (1987), no. 1, 85–96; MR 89a:03127]. 90d:03142
 Zhang, Ji Jiang see Li, Bang He, 90f:03074

26E99 None of the above, but in this section

- Cen, Yong Ting Newton-Leibniz formulas for interval-valued functions and fuzzy functions. (Chinese. English summary) 90a:26037
 Hou, Ren En Uniform convergence of series of fuzzy-valued functions. (Chinese. English summary) 90c:26072
 Peetre, Jaak Generalizing the arithmetic geometric mean—a hapless computer experiment. 90c:26043

Items with secondary classifications in 26E99

- Baceland, R. (with Kerre, E. E.) Piecewise linear fuzzy quantities: a way to implement fuzzy information into expert systems and fuzzy databases. (see 90f:68009)
 Jumarie, Guy A new approach to introducing semantics and subjectivity in approximate reasoning. (see 90f:68009)
 Kerre, E. E. see Baceland, R., 90f:68009
 Kuznetsov, V. P. Interval measure and integral. (Russian) (see 90h:65004)
 Nishimura, Hirokazu Heyting valued considerations on some fundamental existence theorems in modern analysis. 90e:18003
 Ovchinnikov, Serge V. On orderings of fuzzy numbers. 90g:90010

28–XX Measure and integration {For analysis on manifolds, see 58–XX.}

Items with secondary classifications in 28–XX

- Kuratowski, Kazimierz ★ Selected papers. 90h:01024

Items listed otherwise than by author

- Bibliography:
 Kuratowski, Kazimierz see Kuratowski, Kazimierz, 90h:01024
 Biography:
 Kuratowski, Kazimierz see Kuratowski, Kazimierz, 90h:01024

28–01 Elementary exposition; textbooks

- Ciesielski, Krzysztof How good is Lebesgue measure? 90a:28001
 Dorogovtsev, A. Ya. ★ Элементы общей теории меры и интеграла. (Russian) [Elements of the general theory of measure and integral] 90f:28001

Items with secondary classifications in 28–01

- (Antelmann, Horst) see Dieudonné, Jean, 90c:00001
 (Boll, Ludwig) see Dieudonné, Jean, 90c:00001
 Dieudonné, Jean ★ Grundzüge der modernen Analysis. 2. (German) [Fundamentals of modern analysis. 2] 90c:00001
 Fomin, S. V. see Kolmogorov, A. N., 90k:46001
 Kolmogorov, A. N. (with Fomin, S. V.) ★ Элементы теории функций и функционального анализа. (Russian) [Elements of the theory of functions and functional analysis] 90k:46001
 Lahiri, B. K. (with Roy, K. C.) ★ Real analysis. 90f:26001
 Roy, K. C. see Lahiri, B. K., 90f:26001
 Royden, H. L. ★ Real analysis. 90g:00004
 (Tikhomirov, V. M.) see Kolmogorov, A. N., 90k:46001
 Zaanen, Adrian C. ★ Continuity, integration and Fourier theory. 90b:42002

28-02 Advanced exposition (research surveys, monographs, etc.)

Behrends, E. ★ *Maß- und Integrationstheorie*. (German) [Measure and integration theory] 90i:28001

Items with secondary classifications in 28-02

(Bonnet, Robert) see *Handbook: Boolean algebras*, 90k:06004

(Monk, J. Donald) see *Handbook: Boolean algebras*, 90k:06004

Items listed otherwise than by author

Handbook:

Boolean algebras ★ *Handbook of Boolean algebras*. Vol. 3. 90k:06004

28-03 Historical (must also be assigned at least one classification number from Section 01)

Mauldin, R. Daniel One-to-one selections and orthogonal transition kernels. 90h:28001

Items with secondary classifications in 28-03

Bryl'skaya, L. I. Investigations of the definition of the Lebesgue integral at the beginning of the 20th century and its connection with some results in current integral theory. (Russian) 90b:01041

(Egorov, D. F.) see Shields, Allen, 90h:01015

Henstock, Ralph A short history of integration theory. 90e:01031

(Luzin, N. N.) see Shields, Allen, 90h:01015

Shields, Allen Egorov and Luzin. II. 90h:01015

Simms, John C. Traditional Cavalieri principles applied to the modern notion of area. 90j:03095

28-04 Explicit machine computation and programs (not the theory of computation or programming)

Dubuc, B. (with Zucker, S. W.; Tricot, Claude; Quiniou, J. F.; Wehbi, D.) Evaluating the fractal dimension of surfaces. 90k:28001

Quiniou, J. F. see Dubuc, B.; et al., 90k:28001

Tricot, Claude see Dubuc, B.; et al., 90k:28001

Wehbi, D. see Dubuc, B.; et al., 90k:28001

Zucker, S. W. see Dubuc, B.; et al., 90k:28001

28-06 Proceedings, conferences, etc.

(Bandt, Christoph) see *Proceedings: Conference, Topology and Measure*, 90g:28001

(Edgar, G. A.) see *Almost everywhere convergence*, 90i:28002

(Flachsmeier, Jürgen) see *Proceedings: Conference, Topology and Measure*, 90g:28001

(Lotz, Siegfried) see *Proceedings: Conference, Topology and Measure*, 90g:28001

(Maharam, Dorothy) see *Measure and measurable dynamics*, 90d:28001

(Mauldin, R. Daniel) see *Measure and measurable dynamics*, 90d:28001

(Shortt, Rae Michael) see *Measure and measurable dynamics*, 90d:28001

(Silva, Cesar E.) see *Measure and measurable dynamics*, 90d:28001

(Sucheston, L.) see *Almost everywhere convergence*, 90i:28002

Items listed otherwise than by author

Almost everywhere convergence ★ *Almost everywhere convergence*. 90i:28002

Binz ★ *Proceedings of the Conference: Topology and Measure*. V. 90g:28001

Columbus, OH ★ *Almost everywhere convergence*. 90i:28002

Conference:

Almost Everywhere Convergence in Probability and Ergodic Theory ★ *Almost everywhere convergence*. 90i:28002

Measure and Measurable Dynamics ★ *Measure and measurable dynamics*. 90d:28001

Topology and Measure ★ *Proceedings of the Conference: Topology and Measure*. V. 90g:28001

Contemporary Mathematics ★ *Measure and measurable dynamics*. 90d:28001

Measure and measurable dynamics ★ *Measure and measurable dynamics*. 90d:28001

Proceedings:

Conference, Topology and Measure ★ *Proceedings of the Conference: Topology and Measure*. V. 90g:28001

Rochester, NY ★ *Measure and measurable dynamics*. 90d:28001

28Axx Classical measure theory**28A05 Classes of sets (Borel fields, σ -rings, etc.), measurable sets, Suslin sets, analytic sets [see also 04A15, 26A21, 54H05]**

Al-Rashed, Abdallah M. Combinatorics on rings. 90f:28002

Atalla, Robert Saturated sets of probability measures and stochastic matrices. 90f:28003

Balcerzak, M. (with Hejduk, Jacek; Baumgartner, J. E.) On certain σ -ideals of sets. 90m:28001

Barbarosie, A. E. Probability measures on Suslin sets. II. (Russian) 90k:28002

Baumgartner, J. E. see Balcerzak, M.; et al., 90m:28001

Bernardi, Marco P. (with Bondioli, Cristiana) On a combinatorial proof of the existence of nonmeasurable sets. (Italian. English summary) 90g:28002

Bondioli, Cristiana see Bernardi, Marco P., 90g:28002

Bucalich, Z. Every set of positive measure has a porous subset with difference set containing an interval. 90d:28002

Droste, Manfred The existence of rigid measurable spaces. 90b:28001

Fillipczak, Tomasz On some abstract density topologies. 90d:28003

Gaudard, Marie (with Hadwin, Don) Sigma-algebras on spaces of probability measures. 90k:28003

Grande, Zbigniew (with Strońska, Ewa) Sur la mesurabilité de fonctions quasi-continues. (Polish summary) [On the measurability of quasicontinuous functions] 90k:28004

Hadwin, Don see Gaudard, Marie, 90k:28003

Hansell, R. W. Sums, products and continuity of Borel maps in nonseparable metric spaces. 90d:28004

Hejduk, Jacek (with Wajch, Eliza) Compactness in the sense of the convergence with respect to a small system. (Russian summary) 90i:28003

— see also Balcerzak, M.; et al., 90m:28001

Humke, P. D. (with Laczko, M.) The Borel structure of iterates of continuous functions. 90i:28004

Jasiński, Jakub A solution to the problem of B. V. Rao on Borel structures. 90d:28005

Kominek, Z. On an equivalent form of a Steinhaus theorem. 90c:28001

Laczko, M. see Humke, P. D., 90i:28004

Lahiri, B. K. see Saha, P. K., 90a:28004

Lipovan, O. A generalization of the submeasure notion. (Romanian summary) 90a:28002

Miller, Harry I. Generalization of a result of Borwein and Ditor. 90a:28003

Olejček, V. Generation of a q -sigma-algebra in the plane. 90k:28005

— Generation of a q -sigma-algebra in the plane. (see 90a:00026)

Saha, P. K. (with Lahiri, B. K.) On further extensions of Steinhaus theorem. 90a:28004

Schilling, Kenneth Some category bases which are equivalent to topologies. 90g:28003

Shortt, Rae Michael Measurable spaces with c.c.c. 90a:28005

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- Bedford, Tim The box dimension of self-affine graphs and repellers. 90c:58091
- Blunt, Martin *see* Ball, Robin, 90b:82046
- Brady Moreira, F. G. *see* Grillon, M. P., 90k:82025
- Brucks, K. M. Hausdorff dimension and measure of basin boundaries. 90m:58124
- Chhabra, Ashvin (with Jensen, Roderick V.) Direct determination of the $f(\alpha)$ singularity spectrum. 90c:58110
- Cutler, C. D. (with Dawson, D. A.) Estimation of dimension for spatially distributed data and related limit theorems. 90m:62116
- Dawson, D. A. *see* Cutler, C. D., 90m:62116
- Dougherty, R. (with Kechris, Alexander S.) Hausdorff measures and sets of uniqueness for trigonometric series. 90g:42020
- Drobot, Vladimir (with Turner, John Christopher) Hausdorff dimension and Perron-Frobenius theory. 90a:11097
- Dubuc, B. On Takagi fractal surfaces. 90k:26020
- (with Quiniou, J. F.; Roques-Carmes, C.; Tricot, Claude; Zucker, S. W.) Evaluating the fractal dimension of profiles. 90a:58101
- (with Zucker, S. W.; Tricot, Claude; Quiniou, J. F.; Wehbi, D.) Evaluating the fractal dimension of surfaces. 90k:28001
- Falconer, K. J. Dimensions and measures of quasi self-similar sets. 90c:58103
- Feigenbaum, Mitchell J. (with Procaccia, Itamar; Tél, T.) Scaling properties of multifractals as an eigenvalue problem. 90c:58112
- Geronimo, J. S. (with Hardin, D. P.) An exact formula for the measure dimensions associated with a class of piecewise linear maps. 90d:58076
- Grillon, M. P. (with Brady Moreira, F. G.) Exact renormalization group approach on frustrated Sierpinski-type fractals. 90k:82025
- Gruber, Peter M. Dimension and structure of typical compact sets, continua and curves. 90k:54052
- Haase, H. The dimension of analytic sets. 90a:54094
- Dimension functions. 90e:28009
- Hardin, D. P. *see* Geronimo, J. S., 90d:58076
- Harrison, Jenny C. Embedded continued fractals and their Hausdorff dimension. 90c:58083
- Herbut, Igor (with Milošević, Sava) Hopping on hierarchical structures and random walking on deterministic fractals. 90k:82117
- Herrmann, Robert A. Fractals and ultrasmooth microeffects. 90d:03143
- Hunt, Fern (with Sullivan, Francis E.) Methods of computing fractal dimensions. 90i:58097
- (Husted, Otto) *see* Peitgen, Heinz-Otto, 90i:58088
- Jensen, Roderick V. *see* Chhabra, Ashvin, 90c:58110
- Jones, Peter Wilcox (with Wolff, Thomas H.) Hausdorff dimension of harmonic measures in the plane. 90j:31001
- Jürgens, Hartmut *see* Peitgen, Heinz-Otto, 90i:58088
- Kahane, Jean-Pierre Erratum: "Disintegration of measures according to dimension" [C. R. Acad. Sci. Paris Sér. I Math. 306 (1988), no. 3, 107–110; MR 89f:28015]. (French) 90b:28004
- Kechris, Alexander S. *see* Dougherty, R., 90g:42020
- Kouklou, F. (with Pasche, J.; Petritis, D.) The Hausdorff dimension of the two-dimensional Edwards' random walk. 90k:82007
- Levitor, L. S. Renormalization group for a quasiperiodic Schrödinger operator. (French summary) 90b:58178
- Lokatsievskaya, E. O. The Hausdorff dimension of the cantor in the Frenkel-Kontorova model. 90b:82006
- Mandelbrot, Benoît B. (with Vicsek, Tamás) Directed recursive models for fractal growth. 90b:82080
- Milošević, Sava *see* Herbut, Igor, 90k:82117
- Nottale, Laurent Fractals and the quantum theory of spacetime. 90k:81027
- Pasche, J. *see* Kouklou, F., et al., 90k:82007
- Peitgen, Heinz-Otto (with Jürgens, Hartmut) Fractals: computer experiments with (de)mystifying complex-structures. (Norwegian. English summary) 90i:58088
- Petrakis, D. *see* Kouklou, F., et al., 90k:82007
- Pitskel, B. S. Topological pressure on noncompact sets. 90c:28027
- Procaccia, Itamar *see* Feigenbaum, Mitchell J., et al., 90c:58112
- Quiniou, J. F. *see* Dubuc, B., et al., 90a:58101 and 90k:28001
- Roques-Carmes, C. *see* Dubuc, B., et al., 90a:58101
- Ryabov, V. B. *see* Vavriv, D. M., 90f:58101
- Schwalm, Mizuho K. *see* Schwalm, William A., 90d:82029
- Schwalm, William A. (with Schwalm, Mizuho K.) Electronic properties of fractal-glass models. 90d:82029
- Simms, John C. Traditional Cavalieri principles applied to the modern notion of area. 90j:03095
- Sullivan, Francis E. *see* Hunt, Fern, 90i:58097
- Tél, T. *see* Feigenbaum, Mitchell J., et al., 90c:58112
- Tricot, Claude *see* Dubuc, B., et al., 90a:58101 and 90k:28001
- Turner, John Christopher *see* Drobot, Vladimir, 90a:11097
- Urbaniski, Mariusz The Hausdorff dimension of the graphs of continuous self-affine functions. 90g:26004

- Vavriv, D. M. (with Ryabov, V. B.) The fractal dimension: calculation problems. (Russian) 90f:58101
- Veerman, J. J. P. Irrational rotation numbers. 90f:58109
- Vicsek, Tamás *see* Mandelbrot, Benoît B., 90b:82080
- Wallin, Hans Interpolating and orthogonal polynomials on fractals. 90d:41005
- Wehbi, D. *see* Dubuc, B., et al., 90k:28001
- Wolff, Thomas H. *see* Jones, Peter Wilcox, 90j:31001
- Wu, Ying Kai Lacunarity and universality. 90i:82026
- Zähle, U. Self-similar random measures and carrying dimension. (see 90g:28001)
- Zhou, Yun Shi Higher-dimensional Euler-Maclaurin summation formulas. (Chinese. English summary) 90b:40007
- Zucker, S. W. *see* Dubuc, B., et al., 90a:58101 and 90k:28001

28A99 None of the above, but in this section

- Items with secondary classifications in 28A99**
- Choczwski, Bogdan (with Kuczma, Marek) A remark on doubly stochastic measures and functional equations. 90f:39013
- Kuczma, Marek *see* Choczwski, Bogdan, 90f:39013
- Lapides, Michel L. Strong product integration of measures and the Feynman-Kac formula with a Lebesgue-Stieltjes measure. 90c:28021
- Legut, Jerzy Inequalities for α -optimal partitioning of a measurable space. 90a:60004
- Malitz, Seth M. Measures of graphs on the reals. 90d:05198
- Zakharov, Valerii Konstantinovich Lebesgue cover and Lebesgue extension. 90i:54044

28Bxx Measures and integrals with values in abstract spaces

28B05 Vector-valued measures and integrals [see also 46G10]

- Areshkin, G. Ya. *see* Klyuchnikov, A. E., 90a:28014
- Areshkina, A. G. Integrals of scalar functions with respect to a vector measure, and linear operators. (Russian) 90a:28013
- Balder, E. J. Fatou's lemma in infinite dimensions. 90c:28012
- Bhaumik, K. N. *see* Kundu, S. K., 90k:28021
- Bravo de la Parra, Rafael Un théorème de la valeur moyenne pour des intégrales bilinéaires. (English summary) [A mean-value theorem for bilinear integrals] 90d:28009
- Ferakova, Ludmila (with Náther, Ondrej) The range of vector measures and set-valued measures. 90b:28015
- Fernández y Fernández-Arroyo, Fidel José Derivability of the product of vector measures. (Spanish. English summary) 90c:28013
- Fubini theorems in bilinear integration. (Spanish. English summary) 90d:28010
- Flacca, Antonella The Burkhill-Cesari integral for Banach-space-valued set functions. (Italian. English summary) 90d:28012
- Fritzsche, Bernd (with Kirstein, Bernd) Schwache Konvergenz nichtnegativ hermitescher Borelmaße. (English summary) [Weak convergence of nonnegative Hermitian Borel measures] 90a:28015
- Gai, Yun Ying *see* Li, Rong Lu; et al., 90e:28013
- Gordon, Russell A. The Denjoy extension of the Bochner, Pettis, and Dunford integrals. 90e:28011
- Jiménez Guerra, P. Differentiation of measures and bilinear vector integration. (Spanish) 90d:28011
- Kirstein, Bernd *see* Fritzsche, Bernd, 90a:28015
- Klavánek, Igor ★ Integration structures. 90c:28014
- Klyuchnikov, A. E. (with Areshkin, G. Ya.) Integral representation of weakly additive, weakly homogeneous continuous operators. (Russian) 90a:28014
- Kundu, S. K. (with Bhaumik, K. N.) On d -variation and d -semivariation of set functions. (Russian and Slovak summaries) 90k:28021
- Kusraev, A. G. (with Malyugin, S. A.) Atomic decomposition of vector measures. 90k:28022
- Li, Rong Lu (with Gai, Yun Ying; Lu, Rui) A generalization of Rosenthal's lemma. 90e:28013
- Lu, Rui *see* Li, Rong Lu; et al., 90e:28013
- Malyugin, S. A. *see* Kusraev, A. G., 90k:28022
- Nakanishi, Shizu Ranked-vector-space valued measures and the Radon-Nikodým theorem. 90c:28015
- Náther, Ondrej *see* Ferakova, Ludmila, 90b:28015
- Ricker, Werner Vector measures with values in the compact operators. 90f:28007
- Spakowski, Andrzej Openness of vector measures and their integral maps. 90a:28016
- Szczypinski, Tomasz Nonlinear operator valued measures and integration. 90i:28014
- Items with secondary classifications in 28B05**
- Adolf, V. A. (with Alyakin, V. A.) Continuation of Dobrakov's vector submeasure. 90h:28002
- Alyakin, V. A. *see* Adolf, V. A., 90h:28002
- Baile, M. E. L^p -spaces and bornological integration. (Spanish. English summary) 90j:46041
- Blasco De La Cruz, Oscar Hardy spaces of vector-valued functions: duality. 90a:46082
- Operators from H^1 into a Banach space and vector valued measures. 90k:47065
- Bravo de la Parra, Rafael L_p -spaces and convergence theorems for vector integrals. (Spanish. English summary) 90b:46092
- Brooks, James K. (with Neal, David) The optional stochastic integral. 90b:60054
- Castaing, C. (with Kamińska, A.) Kolmogorov and Riesz type criteria of compactness in Köthe spaces. 90a:46063
- Convergence faible et sections extrémales. [Weak convergence and extremal sections [selections]] 90k:28016
- Dobrakov, Ivan Representation of multilinear operators on $X C_0(T)$. 90c:46055

- On integration in Banach spaces. XI. Integration with respect to polymasures. 90k:46097
- Dubois, Jacques (with M'Khali, A.) Propriétés et théorèmes de convergence pour une intégrale de type Riemann généralisée. (English summary) [Properties and theorems of convergence for a generalized Riemann integral] 90c:26032
- Hale, J. On integration in locally convex spaces. 90g:46065
- Hashimoto, Kazuo Integration in mixed topological spaces. 90m:46077
- Ivković, Z. A. Multiplicity and representation for nonlinear functionals of Hilbert-space valued Gaussian process. 90c:60029
- Janiec, Eugeniusz The Riemann integral for functions with values in a metric space. (Polish. English summary) 90c:28017
- Jefferies, Brian (with Okada, Susumu) Archimedes integrals and conuclear spaces. 90k:46098
- Kadets, V. M. The domain of weak limits of Riemann integral sums of an abstract function. 90k:46099
- Kamitaka, A. see Castaing, C. 90a:46063
- Kuchkarov, Ya. Kh. Weak convergence of L_0 -valued distributions, and a functional central limit theorem. I. (Russian) 90a:60068a
- Weak convergence of L_0 -valued distributions, and a functional central limit theorem. II. (Russian) 90a:60068b
- Lavrit, Boris On the modulus of cone absolutely summing operators and vector measures of bounded variation. 90d:47023
- Masani, P. R. (with Niemi, Hannu) The integration theory of Banach space valued measures and the Tonelli-Fubini theorems. I. Scalar-valued measures on δ -rings. 90c:46071
- (with Niemi, Hannu) The integration theory of Banach space valued measures and the Tonelli-Fubini theorems. II. Pettis integration. 90h:46077
- M'Khali, A. see Dubois, Jacques. 90c:26032
- Neal, David see Brooks, James K. 90h:60054
- Niemi, Hannu see Masani, P. R. 90c:46071 and 90h:46077
- Okada, Susumu see Jefferies, Brian. 90k:46098
- Pinckert, J. P. On the Riesz representation theorem for vector valued measures. 90k:46100
- Stochel, Jan The Fubini theorem for semispectral integrals and semispectral representations of some families of operators. 90a:47085
- Yu, Shu Mo Harmonic analysis for operators on homogeneous Banach spaces. (Chinese) 90c:43005

28B10 Group- or semigroup-valued measures and integrals

- Filter, Wolfgang (with Weber, Karl) The regular component of a group-valued set function. 90c:28015
- Lipovan, O. A probabilistic generalization of the Bartle, Dunford and Schwartz integrability model. 90f:28008
- Ohba, Sachio The Hewitt-Yosida decomposition. (Japanese summary) 90a:28017
- Weber, Karl see Filter, Wolfgang. 90c:28015

Items with secondary classifications in 28B10

- Almeida, P. A direct approach to one variable noncommutative calculus. 90c:22009
- Constantinescu, Corneliu Some properties of spaces of measures. 90d:28008
- Fleischer, Isidore (with Traynor, Tim) Equicontinuity and uniform boundedness for noncommutative groups. 90m:22006
- Morales, Pedro A noncommutative version of the Brooks-Jewett theorem. 90f:06007
- Riečan, Beloslav Remark on an integral of M. Matloka. (Russian summary) 90a:26014
- Tarrantino, C. Decomposition theorems for finitely additive functions. 90k:28016
- Traynor, Tim see Fleischer, Isidore. 90m:22006

28B15 Measures and integrals with values in general ordered systems

- Cătușeanu, Irina \mathcal{P} -bounded operators and vector integrals. (Romanian) 90m:28010
- Volas, Peter A note on lattice group valued measures. 90c:28014
- Items with secondary classifications in 28B15
- Adolf, V. A. (with Alyakin, V. A.) Continuation of Dobrakov's vector submeasure. 90h:28002
- Alyakin, V. A. see Adolf, V. A. 90h:28002
- Andreu, F. (with Mazón, J. M.; Segura de León, S.) A Radon-Nikodým theorem for Riesz space valued measures. 90m:46076
- Choy, Stephen T. L. Positive operators and algebras of dominated measures. 90g:47055
- Fritzsche, Bernd (with Kirstein, Bernd) Schwache Konvergenz nichtnegativer hermitescher Borelmaße. (English summary) [Weak convergence of nonnegative Hermitian Borel measures] 90a:28015
- Kirstein, Bernd see Fritzsche, Bernd. 90a:28015
- Kolokoltsov, V. N. (with Maslov, V. P.) Idempotent analysis as a technique of the theory of control and optimal synthesis. I. 90c:49033
- Maslov, V. P. see Kolokoltsov, V. N. 90c:49033
- Mazón, J. M. see Andreu, F.; et al. 90m:46076
- Riečan, Beloslav Remark on an integral of M. Matloka. (Russian summary) 90a:26014
- Segura de León, S. see Andreu, F.; et al. 90m:46076
- Swartz, Charles The Nikodým boundedness theorem for lattice-valued measures. 90m:46078
- Tikhonov, O. E. On integration theory for spaces in spectral duality. (see 90a:00026)

28B20 Set-valued measures; integration of set-valued functions; measurable selections [see also 54C60, 54C65]

- Artstein, Zvi Parametrized integration of multifunctions with applications to control and optimization. 90k:28023
- Aseev, S. M. Surface set-valued functions and the integration of multivalued mappings. (Russian) 90b:28012

- Bressan, Alberto (with Cortesi, A.) Directionally continuous selections in Banach spaces. 90k:28024
- Castaing, C. Convergence faible et sections extrémales. [Weak convergence and extremal sections [selections]] 90i:28016
- Cortesi, A. see Bressan, Alberto. 90k:28024
- El Arni, Abdelhakem Représentation intégrale des multifonctions séparément additives et séparément lipschitziennes. [Integral representation of separately additive and separately Lipschitz functions] 90g:28016
- Janus, Julian A remark on Carathéodory type selections. 90d:28013
- Kandilakis, Dimitrios A. (with Papageorgiou, Nikolaos S.) On the properties of the Aumann integral with applications to differential inclusions and control systems. 90b:28013
- Li, Ai Jie see Zhang, Wen Xiu; et al. 90m:28011
- Li, Teng (with Zhang, Wen Xiu) On the Radon-Nikodým derivative of a set-valued measure. (Chinese) 90i:28017
- Ma, Ji Feng see Zhang, Wen Xiu; et al. 90m:28011
- Papageorgiou, Nikolaos S. Integrals of families of vector valued functions. 90c:28015
- see also Kandilakis, Dimitrios A. 90b:28013
- Preocupan, Anca-Maria Some properties of (B-M)-regular multimeasures. 90d:28014
- Rzeczuchowski, Tadeusz Strong convergence of selections implied by weak. 90c:28016
- Teodora, Georgeta Continuous selections for multifunctions satisfying the Carathéodory type conditions. The Darboux problem associated to a multivalued equation. 90i:28018
- Zhang, Wen Xiu (with Ma, Ji Feng; Li, Ai Jie) The extension of a compact set-valued measure. 90m:28011
- see also Li, Teng. 90i:28017

Items with secondary classifications in 28B20

- Bressan, Alberto Directionally continuous selections and differential inclusions. 90d:34038
- On the qualitative theory of lower semicontinuous differential inclusions. 90c:34022
- Bulgakov, A. I. On the existence of continuous branches in multivalued mappings with nonconvex images in spaces of summable functions. 90a:49014
- Ferakova, Ludmila (with Náther, Ondrej) The range of vector measures and set-valued measures. 90h:28015
- Fryszkowski, Andrzej Carathéodory type selections of Aumann integrals. 90c:26033
- Gajda, Zbigniew (with Ger, R.) Subadditive multifunctions and Hyers-Ulam stability. 90h:39009
- Ger, R. see Gajda, Zbigniew. 90h:39009
- Hess, Christian Measurability and integrability of the weak upper limit of a sequence of multifunctions. 90h:90186
- Kim, Taesung (with Prikyr, Karel; Yannelis, Nicholas C.) On a Carathéodory-type selection theorem. 90h:54012
- Kisielewicz, Michał Subtrajectory integrals of set-valued functions and neutral functional-differential inclusions. 90k:34010
- Kiel, Heinz-Albrecht A compactness criterion in $L^1(E)$ and Radon-Nikodým theorems for multimeasures. (French summary) 90f:46058
- Kozhaev, Sh. M. An integral of a multivalued function in a Banach space. (Russian) 90c:46034
- Kurzanski, A. B. (with Nikonov, O. I.) Funnel equations and multivalued integration problems for control synthesis. (see 90k:93008)
- Mauldin, R. Daniel One-to-one selections and orthogonal transition kernels. 90h:28001
- Náther, Ondrej see Ferakova, Ludmila. 90h:28015
- Nikonov, O. I. see Kurzanski, A. B. (90k:93008)
- Papageorgiou, Nikolaos S. Decomposable sets in the Lebesgue-Bochner spaces. 90b:46079
- Measurable multifunctions and their applications to convex integral functionals. 90f:49009
- Weak convergence and weak compactness for multifunctions with values in a separable Banach space. 90m:28005
- Plotnikov, A. V. Averaging differential inclusions with the Hukuhara derivative. 90d:34041
- Prikyr, Karel see Kim, Taesung; et al. 90h:54012
- Przesławski, Krzysztof (with Yost, David Thomas) Continuity properties of selectors and Michael's theorem. 90d:49010
- Riečan, Beloslav A note on measurable selectors. 90a:63094
- Rustichini, Aldo A counterexample and an exact version of Fatou's lemma in infinite-dimensional spaces. 90k:46101
- Schmidt, Klaus D. Acknowledgement of priority. 90b:46014
- Świąk, Włodzisław A. Concerning a.e.-continuous extensions of Baire 1 functions. (Polish summary) 90d:54037
- Yannelis, Nicholas C. see Kim, Taesung; et al. 90h:54012
- Yost, David Thomas see Przesławski, Krzysztof. 90d:49010
- Zygmunt, Wojciech The Scorza-Dragoni's type property and product measurability of a multifunction of two variables. (Italian summary) 90c:28010

28B99 None of the above, but in this section

- Chen, Pei De see Jiang, Tao; et al. 90f:28009
- Janiec, Eugeniusz The Riemann integral for functions with values in a metric space. (Polish. English summary) 90c:28017
- Jiang, Tao (with Xiong, Zheng Xin; Chen, Pei De) The Fubini theorems of stochastic measures. 90c:28009
- Xiong, Zheng Xin see Jiang, Tao; et al. 90f:28009

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- Fedrizz, Mario (with Squillante, Massimo; Ventre, Aldo G. S.) On the range of \mathcal{L} -decomposable measures. 90b:28001
- Squillante, Massimo see Fedrizz, Mario; et al. 90b:28001
- Ventre, Aldo G. S. see Fedrizz, Mario; et al. 90b:28001

28Cxx Measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing measures

- Bobillo Guerrero, P. (with Díaz Carrillo, M.) On the summability of certain μ -integrable functions. 90c:28018
 Díaz Carrillo, M. see Bobillo Guerrero, P., 90c:28018
 Klambauer, G. see Meng, Jie, (Not in MR)
 Meng, Jie Correction of an error in G. Klambauer's *Real analysis* [American Elsevier, New York, 1973]. (Not in MR)
 Sasvári, Zoltán Additivity of certain functionals and the construction of invariant integrals. 90c:28016
 Thomas, E. G. F. (with Volčič, A.) Daniell integral represented by Radon measures. 90c:28025
 Volčič, A. see Thomas, E. G. F., 90c:28025

Items with secondary classifications in 28C05

- Bouchitté, G. (with Valadier, M.) Integral representation of convex functionals on a space of measures. 90j:46030
 Khan, M. Ali On Cournot-Nash equilibrium distributions for games with a nonmetrizable action space and upper semi-continuous payoffs. 90f:90026
 Valadier, M. see Bouchitté, G., 90j:46030
 Yamada, Shinichi A mathematical theory of randomized computation. II. 90d:68035b

28C10 Measures on topological groups, Haar measures, invariant measures [see also 43A05]

- Ciesielski, Krzysztof Algebraically invariant extensions of σ -finite measures on Euclidean space. 90f:28010
 Kharazishvili, A. B. Groups of motions and the uniqueness of the Lebesgue measure. (Russian. English and Georgian summaries) 90i:28019
 Lewandowski, Maciej (with Linde, W.) Real translates of complex measures. 90k:28026
 Linde, W. see Lewandowski, Maciej, 90k:28026
 Nizharadze, G. V. (with Omiadze, K. T.) Combinatorics of nondiscrete groups of motions, and nonmeasurable sets. (Russian. English and Georgian summaries) 90i:28020
 Omiadze, K. T. see Nizharadze, G. V., 90i:28020
 Ramachandran, D. A new proof of Hopf's theorem on invariant measures. 90k:28027
 Zakrzewski, Piotr Extensions of isometrically invariant measures on Euclidean spaces. 90m:28012

Items with secondary classifications in 28C10

- Blimlinger, M. Rajchman measures on compact groups. 90f:22003
 (Burger, Marc) see de la Harpe, Pierre, 90m:22001
 Castaing, C. (with Kamińska, A.) Kolmogorov and Riesz type criteria of compactness in Köthe spaces. 90a:46063
 Drewnowski, L. Open mapping theorems and the Borel structure of Polish groups. 90k:46014
 Gardner, Richard J. (with Łaczkowski, M.) The Banach-Tarski theorem on polygons and the cancellation law. 90k:52001
 Hansell, R. W. Sums, products and continuity of Borel maps in nonseparable metric spaces. 90d:28004
 de la Harpe, Pierre (with Valette, Alain) La propriété (T) de Kazhdan pour les groupes localement compacts (avec un appendice de Marc Burger). (English summary) [Kazhdan's property (T) for locally compact groups (with an appendix by Marc Burger)] 90m:22001
 Kamińska, A. see Castaing, C., 90a:46063
 Łaczkowski, M. see Gardner, Richard J., 90k:52001
 Lahiri, B. K. Density and sparse set topology. 90a:22003
 Pantiulaya, G. R. Independent families of sets and some of their applications to measure theory. (Russian. English and Georgian summaries) 90m:03005
 Sasvári, Zoltán Additivity of certain functionals and the construction of invariant integrals. 90c:28016
 Shavgulidze, E. T. A measure that is quasi-invariant with respect to the action of a group of diffeomorphisms of a finite-dimensional manifold. 90c:58030
 Valette, Alain see de la Harpe, Pierre, 90m:22001
 Zakrzewski, Piotr On universal semiregular invariant measures. 90a:68074

28C15 Measures on topological spaces (regularity of measures, etc.)

- Bisgaard, Torben M. On the continuity of convolution semigroups. 90i:28021
 Chakraborti, T. see Sarkhel, D. N., 90a:28018
 Gryllakis, Constantinos Homeomorphic measures on products of intervals. 90c:28017
 Jefferies, Brian Fubini's theorem for Radon polymasures. 90c:28019
 Kim, Choo Whan Baire measures on $[0, \Omega]$ and $[0, \mathbb{Q}]$. 90d:28015
 Navarro-Bermúdez, Francisco J. (with Ostoby, John C.) Four topologically equivalent measures in the Cantor space. 90c:28020
 Ohta, Haruto (with Tamano, Ken-ichi) Topological spaces whose Baire measure admits a regular Borel extension. 90d:28016
 Ostoby, John C. see Navarro-Bermúdez, Francisco J., 90c:28020
 Sarkhel, D. N. (with Chakraborti, T.) Measurable boundaries of functions in topological Vitali measure spaces. 90a:28018
 Stepanov, Tsvetan E. One measure on the space of compacts in \mathbb{R}^n and its application on some classes of optimization problems. 90c:28022
 Tamano, Ken-ichi see Ohta, Haruto, 90d:28016

Items with secondary classifications in 28C15

- Grekas, S. On the existence of idempotent liftings. 90b:28005
 Grosse-Erdmann, Karl-Göwin An extension of the Steinhaus-Weil theorem. 90k:28014
 Olubumuyi, A. A note on irregular measures. 90b:28004
 Taraschanski, M. T. Uniqueness of the extension of a regular measure. 90g:28005
 Wang, Pei Zhuang see Zhang, Lian Wen, 90c:28002
 Yan, Jia An On monotone class theorems. (Chinese. English summary) 90g:28012
 Zhang, Lian Wen (with Wang, Pei Zhuang) A generalization of Choquet's theorem to measurable spaces. 90c:28002

28C20 Measures and integrals in function spaces (Wiener measure, Gauss measure, etc.) [see also 58D20, 60B11]

- Cameron, R. H. (with Storvick, D. A.) Relationships between the Wiener integral and the analytic Feynman integral. 90b:28014
 — (with Storvick, D. A.) Change of scale formulas for Wiener integral. 90d:28017
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 Chung, Dong Myung (with Skoug, David) Conditional analytic Feynman integrals and a related Schrödinger integral equation. 90k:28028
 Kharazishvili, A. B. Borel measures in the space \mathbb{R}^n . 90g:28017
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 Kovačik, Yu. I. Approximate calculation of Feynman integrals using the Taylor formula. (Russian) 90k:28029
 Kvitarev, D. V. A limit theorem for complex measures. (Russian) (see 90m:00040)
 Lapidus, Michel L. Strong product integration of measures and the Feynman-Kac formula with a Lebesgue-Stieltjes measure. 90c:28021
 Park, Chul (with Skoug, David) A simple formula for conditional Wiener integrals with applications. 90c:28022
 Paul, Thierry Wavelets and path integral. (see 90g:42062)
 Shimomura, Hiroaki An aspect of differentiable measures on \mathbb{R}^∞ . 90a:28020
 Skoug, David Feynman integrals involving quadratic potentials, stochastic integration formulas, and bounded variation for functions of several variables. 90d:28018
 — see also Park, Chul, 90c:28022 and Chung, Dong Myung, 90k:28028
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- Ahn, Jae Moon (with Chang, Kun Soo; Yoo, Il) Some Banach algebras of Yeh-Feynman integrable functionals. 90k:46102
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 Cameron, R. H. (with Storvick, D. A.) Unbounded Feynman integrable functionals defined in terms of analytic functions. 90b:81030
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 Chung, Dong Myung (with Kang, Soon Ja) Conditional Wiener integrals and an integral equation. 90a:60145
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 Dorogovtsev, A. A. Elements of stochastic differential calculus. (Russian) 90c:60028
 Druţcenskij, Anatolij Note on a construction of unbounded measures on a nonseparable Hilbert space quantum logic. (French summary) 90b:81011
 Egorov, A. D. An approximate formula of a given degree of accuracy for a functional integral with respect to a measure generated by an arbitrary random process. (Russian. English summary) 90b:65024
 Feyel, Denis (with de La Pradelle, Arnaud) Sur les capacités gaussiennes en dimension infinie. (English summary) [On Gaussian capacities in infinite dimensions] 90b:46078
 Fil, I. A. A set of cocycles connected with an R_0^* -invariant measure. (Russian) 90a:46105
 Frolov, N. N. Complex distributions on a Hilbert space. (Russian) 90d:46068
 Ivković, Z. A. Multiplicity and representation for nonlinear functionals of Hilbert-space valued Gaussian process. 90c:60029
 Jefferies, Brian Cylindrical probabilities and the differentiation of vector measures. 90c:46072
 Johnson, Gerald W. (with Lapidus, Michel L.) Noncommutative operations on Wiener functionals and Feynman's operational calculus. 90b:81053
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 Li, Yi Chia Generalized functions on infinite-dimensional spaces and its application to white noise calculus. 90k:60125
 Linde, W. Shifted moments of Gaussian measures in Hilbert spaces. 90k:60013
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 Misiewicz, J. K. (with Rył-Nardzewski, Czesław) Norm dependent positive definite functions and measures on vector spaces. 90k:46103
 Okazaki, Yoshiaki (with Takahashi, Yasuji) p -uniform measures on linear spaces ($0 \leq p < \infty$). 90i:60005
 Park, Chul (with Skoug, David) The Feynman integral of quadratic potentials depending on n time variables. 90a:46107
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 — \star Continual means and boundary value problems in function spaces. 90m:35195
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Saha, P. K. (with Lahiri, B. K.) On further extensions of Steinhaus theorem. 90a:28004

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Skoug, David *see* Park, Chul, 90a:46107 and Chang, Kun Soo; et al., 90b:46093

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— The quotient of smooth measures is a smooth function. (Russian) 90m:46079

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Rosen, V. V. Ordering of sets of probability measures. 90i:28023

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Yao, Bi Yun Characterizations of Carleson measures on \mathbb{R}_+^{n+1} . (Chinese) 90k:42040

28Dxx Measure-theoretic ergodic theory [see also 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]

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Adamski, Wolfgang On the existence of invariant probability measures. 90j:28004

Bezuglyi, S. I. (with Golodets, V. Ya.; Danilenko, A. I.) Extension of the 1-cocycles of dynamical systems onto the elements of the normalizer. (Russian. English summary) 90h:28016

Bose, Christopher J. Generalized baker's transformations. 90c:28023

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— Pointwise ergodic theorems for arithmetic sets. 90k:28030

Broise, M. (with Dénél, Yves; Derriennic, Y.) Réarrangement, inégalités maximales et théorèmes ergodiques fractionnaires. (English summary) [Rearrangement, maximal inequalities and fractional ergodic theorems] 90m:28013

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Coffey, John Some remarks concerning an example of a minimal, non-uniquely ergodic interval exchange transformation. 90c:28025

— Uniformly distributed D -sequences. 90k:28031

Conze, Jean-Pierre (with Lesigne, Emmanuel) Sur un théorème ergodique pour des mesures diagonales. [On an ergodic theorem for diagonal measures] 90a:28021

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— *see also* Broise, M.; et al., 90m:28013

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— (with Silva, Cesar E.) Finite full sets in 2-stack structures. 90h:28018

— (with Hajian, Arshag) Sequences of integers and ergodic transformations. 90m:28016

Filipczak, Tomasz A note on the recurrence theorem. (Polish summary) 90g:28019

Friedman, Nathaniel A. Mixing and sweeping out. 90m:28017

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— *see also* Bourgain, J., 90k:28030

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Hellekalek, P. (with Larcher, G.) On functions with bounded remainder. (French summary) 90i:28024

— (with Larcher, G.) On Weyl sums and skew products over irrational rotations. 90m:28019

Hofbauer, Franz Generic properties of invariant measures for continuous piecewise monotonic transformations. 90b:28018

Huang, Xian Hua Minimal set and classification of interval exchange transformations. 90g:28021

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— An obstruction to K -fold splitting. 90h:28020

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— On the weak isomorphism of strictly ergodic homeomorphisms. 90g:28022

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Park, Kyewon On ergodic foliations. 90b:28021

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Pospiech, Frank (with Štěpán, A. M.) Über die vollständige Nichtintegrierbarkeit eines Systems zweier Teilchen auf einem Intervall. [On the complete nonintegrability of a system of two particles on an interval] 90b:28022

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Rosenthal, Alain Strictly ergodic models for noninvertible transformations. 90a:28026

— On strictly ergodic models for commuting ergodic transformations. (French summary) 90c:28023

Rudolph, Daniel J. Rectangular tilings of \mathbb{R}^n and free \mathbb{R}^n -actions. 90d:28024

Rychlik, Marek Ryszard The Wiener lemma and cocycles. 90a:28028

— Regularity of the metric entropy for expanding maps. 90a:28027

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Sinai, Ya. G. The absence of the Poisson distribution for spacings between quasi-energies in the quantum kicked-rotator model. 90c:28022

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Wagh, V. M. A descriptive version of Ambrose's representation theorem for flows. 90m:28021

Wagoner, J. B. Markov partitions and K_2 . 90d:28022

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Williams, Susan A sofic system which is not spectrally of finite type. 90i:28027

— Covers of non-almost-finite type sofic systems. 90c:28028

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Zou, Ying Lipschitz-ergodic transformation. 90c:28029

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Andjel, Enrique D. Ergodic and mixing properties of equilibrium measures for Markov processes. 90g:60066

Atalla, Robert Erratum to: "Markov operators and invariant Baire functions" [Rocky Mountain J. Math. 13 (1983), no. 3, 397–400; MR 86b:47010]. 90m:47016

Bertrand-Mathis, Anne (with Volkmann, Bodo) On (e, k) -normal words in connecting dynamical systems. 90m:11115

Blanchard, F. β -expansions and symbolic dynamics. 90j:54039

Blokh, A. M. (with Lyubich, M. Yu.) Ergodicity of transitive unimodal transformations of the interval. 90k:58109

Bogachev, V. I. (with Prostov, Yu. I.) Polynomial diffeomorphism of a ball without invariant measures. (Russian) 90h:58110

Borel, J.-P. Self-similar measures and sequences. 90f:11064

- Bose, Christopher J. Invariant measures and equilibrium states for piecewise $C^{1+\alpha}$ endomorphisms of the unit interval. 90b:58144
- Bourgain, J. Almost sure convergence in ergodic theory. 90k:47017
- Boyd, David W. Salem numbers of degree four have periodic expansions. 90j:11071
- Bulatek, Wojciech Topological conjugacy of Morse flows over finite abelian groups. 90b:58231
- Choksi, J. R. (with Eigen, Stanley J.; Oxtoby, John C.; Prasad, V. S.) The work of Dorothy Maharam on measure theory, ergodic theory and category algebras. 90k:28015
- Collet, P. (with Ferrero, Pierre Robert) Absolutely continuous invariant measure for expanding Pick maps of the interval except at a marginal fixed point. 90k:58111
- Çiğmez, Doğan A stochastic ergodic theorem for general additive processes. 90g:47013
- Demetrius, Lloyd Ergodic theory and dynamical systems in evolutionary biology. 90j:92019
- Eigen, Stanley J. see Choksi, J. R.; et al., 90k:28015
- Eloranta, Karl On the order in chaos. (Finnish. English summary) 90k:58112
- Ferrero, Pierre Robert see Collet, P., 90k:58111
- FR, I. A. A set of cocycles connected with an R_0^* -invariant measure. (Russian) 90a:46105
- Furstenberg, Hillel (with Katznelson, Yitzhak) A density version of the Hales-Jewett theorem for $k = 3$. 90k:05003
- Hadwin, Don (with Hoover, T. B.) Operator algebras and the conjugacy of transformations. II. 90a:46175
- Han, Mao An Unique ergodicity of flows on the torus and the rotation number. 90d:58077
- Hoover, T. B. see Hadwin, Don, 90a:46175
- Ivanik, A. Weyl almost periodic points in topological dynamics. 90i:54086
- Jablonski, Marian On convergence of iterates of the Frobenius-Perron operator for expanding mappings. 90b:47051
- Katznelson, Yitzhak see Furstenberg, Hillel, 90k:05003
- Kay, Kenneth G. How strongly does classical ergodicity influence quantum behavior? 90g:81071
- Kim, Ki Hang (with Roush, Fred) Decidability of shift equivalence. 90g:54033
- Kowalski, Zbigniew S. Minimal generators for ergodic endomorphisms. 90k:28025
- Krasinkamp, C. Statistic and ergodic properties of Minkowski's diagonal continued fraction. 90m:11120
- Le Calvez, Patrice Introduction à la théorie ergodique. [Introduction to ergodic theory] 90d:58078
- Lesigne, Emmanuel Théorèmes ergodiques pour une translation sur un nilvariété. (English summary) [Ergodic theorems for a translation on a nilmanifold] 90c:58086
- Liu, Lin see Liu, Xiang Jun; et al., 90m:58185
- Liu, Xiang Jun (with Sun, Yi Sui; Liu, Lin) Application of Lie transformation in area-preserving mapping. 90m:58185
- Lou, You-Shi The existence of absolutely continuous invariant measures for $C^{1+\alpha}$ Jablonski transformation in R^n . 90k:58053
- Lyubich, M. Yu. see Birkhoff, A. M., 90k:58109
- (Maharam, Dorothy) see Choksi, J. R.; et al., 90k:28015
- Nowicki, Tomasz A positive Liapunov exponent for the critical value of an S -unimodal mapping implies uniform hyperbolicity. 90c:58100
- Oxtoby, John C. see Choksi, J. R.; et al., 90k:28015
- Prasad, V. S. see Choksi, J. R.; et al., 90k:28015
- Prostor, Yu. I. see Bugachev, V. I., 90k:58110
- Pugh, Charles (with Shub, Michael) Ergodic attractors. 90b:58057
- Rauzy, G. Rotations sur les groupes, nombres algébriques, et substitutions. [Rotations on groups, algebraic numbers and permutations] 90g:11017
- Roush, Fred see Kim, Ki Hang, 90g:54033
- Sato, Ryotaro On the ergodic power function for invertible positive operators. 90a:47023
- Shub, Michael see Pugh, Charles, 90b:58057
- Socol, Jolanta Exactness of expanding mappings. 90d:58080
- Solov'chik, M. R. Ergodic properties of systems of classical statistical mechanics with an external potential. 90j:82006
- Strittmatter, Wolfram Finitely determined processes in metric spaces. 90d:60003
- Sucheston, L. see Akcoglu, M. A., 90j:47005
- Sun, Yi Sui see Liu, Xiang Jun; et al., 90m:58185
- Ticky, R. F. A criterion for the uniform distribution of sequences in compact metric spaces. 90c:11049
- Volkman, Bodo see Bertrand-Mathis, Anne, 90m:11115
- Wagoner, J. B. Realizing symmetries of a shift. 90c:58139
- Weiss, Benjamin Countable generators in dynamics—universal minimal models. 90g:28025
- Xiong, Jin Cheng A note on topological entropy. (Chinese) (Not in MR)
- Yoshimoto, Takeshi Decomposition of measure spaces and stochastic ergodic theorems. 90c:47007
- Zargaryan, A. S. A variational principle for a symbolic Markov chain with a countable number of states. (Russian) (see 90m:00040)

28D10 One-parameter continuous families of measure-preserving transformations

- Ganikhodjaev, N. N. Random walks along trajectories of groups of automorphisms of a Lebesgue space. II. (Russian) 90c:28030
- Krutina, Miroslav Asymptotic rate of a flow. 90k:28035
- Petersen, Karl The ergodic theorem with time compression. 90b:28023
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- Broise, M. (with Déniel, Yves; Derriennic, Y.) Réarrangement, inégalités maximales et théorèmes ergodiques fractionnaires. (English summary) [Rearrangement, maximal inequalities and fractional ergodic theorems] 90m:28013
- Déniel, Yves see Broise, M.; et al., 90m:28013
- Derriennic, Y. see Broise, M.; et al., 90m:28013
- Gutkin, E. (with Katok, A.) Weakly mixing billiards. 90g:58098
- Johnson, Stewart D. Continuous measures in one dimension. 90g:58065
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- Rudnicki, Ryszard Strong ergodic properties of a first-order partial differential equation. 90a:58097
- Rychlik, Marek Ryszard Another proof of Jakobson's theorem and related results. 90b:58149
- Solov'chik, M. R. Sufficient conditions for the Bernoulli property for K -systems and its application to classical statistical mechanics. 90m:58119

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- Adams, Scot Indecomposability of treed equivalence relations. 90m:28022
- Bergelson, Vitaly (with Rudolph, Daniel J.) Weakly mixing actions of F^∞ have infinite subgroup actions which are Bernoulli. 90b:28024
- (with Rosenblatt, Joseph) Joint ergodicity for group actions. 90m:28023
- Chilin, V. I. (with Shipovskii, A. N.) A statistical ergodic theorem in nonseparable symmetric spaces for dynamic systems with K -parameter time. (Russian) 90d:28023b
- (with Shipovskii, A. N.) A statistical ergodic theorem in nonseparable symmetric spaces for motions of the group Z^k . (Russian) 90d:28023a
- Danilenko, A. I. see Golodets, V. Ya., 90b:28029
- Ellis, Robert Mortimer (with Nerurkar, M.) Enveloping semigroup in ergodic theory and a proof of Moore's ergodicity theorem. 90g:28024
- Fedorov, A. L. see Vekaler, A. S., 90c:28032 and Rubenstein, B. A., 90k:28036
- Golodets, V. Ya. (with Danilenko, A. I.) Ergodic actions of abelian groups, and properties of their simultaneous actions. (Russian) 90b:28029
- Gouvar'ch, Yves Propriétés ergodiques, en mesure infinie, de certains systèmes dynamiques fibrés. [Ergodic properties, in infinite measure, of certain fibered dynamical systems] 90i:28030
- Hawkins, Jane M. (with Silva, Cesar E.) Remarks on recurrence and orbit equivalence of nonsingular endomorphisms. 90i:28031
- (with Robinson, E. A., Jr.) Approximately transitive (2) flows and transformations have simple spectrum. 90j:28006
- Kamiński, Brunon A representation theorem for perfect partitions of Z^2 -actions with finite entropy. 90c:28026
- Nerurkar, M. see Ellis, Robert Mortimer, 90g:28024
- Nguyen To Nha The group of measure preserving transformations of the unit interval is an absolute retract. 90m:28024
- Parczyk, Krystyna Time-average for physical quantities in infinite classical systems. 90d:28024
- Robinson, E. A., Jr. Nonabelian extensions have nonsimple spectrum. 90i:28032
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- Rosenblatt, Joseph see Bergelson, Vitaly, 90m:28023
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- Schmidt, Klaus D. Mixing automorphisms of compact groups and a theorem by Kurt Mahler. 90c:28031
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- Vekaler, A. S. (with Fedorov, A. L.) On the conjugacy of homomorphisms of locally compact groups with respect to the outer group of a measurable equivalence relation. 90c:28032
- Zimmer, Robert J. Orbit equivalence, Lie groups, and foliations. 90a:28030

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- Agreer, O. N. Conjugacy of a group action to its inverse. (Russian) 90i:22010
- Auslander, Joseph (with Markley, N. G.) Proximal roots of minimal homeomorphisms. 90b:54046
- Connes, Alain (with Woods, E. J.) Hyperfinite von Neumann algebras and Poisson boundaries of time dependent random walks. 90b:46100
- Golodets, V. Ya. (with Sinef'shchikov, S. D.) Regularization of actions of groups and groupoids on measured equivalence relations. 90f:22007
- Liu, Lin see Liu, Xiang Jun; et al., 90m:58185
- Liu, Xiang Jun (with Sun, Yi Sui; Liu, Lin) Application of Lie transformation in area-preserving mapping. 90m:58185
- Markley, N. G. see Auslander, Joseph, 90b:54046
- Park, Kyewon On ergodic foliations. 90b:28021
- Ramachandran, D. A new proof of Hopf's theorem on invariant measures. 90k:28027
- Sinef'shchikov, S. D. see Golodets, V. Ya., 90f:22007
- Sun, Yi Sui see Liu, Xiang Jun; et al., 90m:58185
- Woods, E. J. see Connes, Alain, 90b:46100
- Zimmer, Robert J. Representations of fundamental groups of manifolds with a semisimple transformation group. 90i:22021

28D20 Entropy and other invariants

- Abundo, M. Entropy and characteristic exponents for the quadratic map on the unit interval. 90i:28033
- Kowalski, Zbigniew S. Minimal generators for ergodic endomorphisms. 90b:28025
- Lind, D. A. (with Ward, Thomas Boulton) Automorphisms of solenoids and p -adic entropy. 90a:28031
- Lo Schiavo, M. Generating new invariants and related ergodicity. (Italian summary) 90i:28034
- Pitskef, B. S. Topological pressure on noncompact sets. 90c:28027
- Podgorski, Krzysztof Martingale approach to Boltzmann's entropy and exact transformations. 90m:28025
- Ryzhikov, V. V. The Rohlin-Halmos property without ε does not hold for the actions of the group Z^2 . 90k:28037
- Ward, Thomas Boulton see Lind, D. A., 90a:28031
- Weiss, Benjamin Countable generators in dynamics—universal minimal models. 90g:28025

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- Aldous, David J. (with Shields, Paul) A diffusion limit for a class of randomly-growing binary trees. 90b:60052
- Allouche, Jean-Paul (with Mendès France, Michel; Tenenbaum, Gérard) Entropy: an inequality. 90b:26033
- Barkmeijer, Jan The speed interval: a rotation algorithm for endomorphisms of the circle. 90b:58221
- Benatti, Fabio (with Narnhofer, Heide) Entropic dimension for completely positive maps. 90b:46102
- Bessis, D. (with Paladin, Giovanni; Turchetti, G.; Vaienti, S.) Generalized dimensions, entropies, and Liapunov exponents from the pressure function for strange sets. 90b:58097
- Cowen, Robert Julian On the classification of one-sided Markov chains. 90m:28014
- Donnay, Victor J. Geodesic flow on the two-sphere. II. Ergodicity. 90b:58127b
- Geodesic flow on the two-sphere. I. Positive measure entropy. 90b:58127a
- Forte, B. (with Hughes, W. P.) A representation theorem for entropies with the branching property. 90b:94029
- Glendinning, Paul (with Los, Jérôme; Otero-Espinar, M. V.; Tresser, C.) Dynamique symbolique pour la renormalisation des endomorphismes d'entropie nulle de l'intervalle. (English summary) [Symbolic dynamics for the renormalization of endomorphisms on the unit interval with zero entropy] 90b:58155
- Hughes, W. P. see Forte, B., 90b:94029
- Kannappan, P. (with Sahoo, P. K.) Weighted entropy of degree β on open domain. 90b:39016
- Kifer, Yuri (with Yomdin, Y.) Volume growth and topological entropy for random transformations. 90g:58067
- Knieper, Gerhard (with Weiss, Howard N.) Regularity of measure theoretic entropy for geodesic flows of negative curvature. I. 90b:58128
- (Kolmogorov, A. N.) see Sinai, Ya. G., 90b:01055
- Krutiina, Miroslav Asymptotic rate of a flow. 90a:28035
- van Lambalgen, Michiel Complexity, randomness and unpredictability. 90c:68033
- Lind, D. A. Perturbations of shifts of finite type. 90g:54035
- Lopes, Artur Oscar The complex potential generated by the maximal measure for a family of rational maps. 90c:58099
- A note on δ -equilibrium measures for rational maps. 90b:31008
- Los, Jérôme see Glendinning, Paul; et al., 90b:58155
- Martin, N. F. G. On ergodic properties of restrictions of inner functions. 90c:30056
- Mendès France, Michel see Allouche, Jean-Paul; et al., 90b:26033
- Mendoza, Leonardo Topological entropy of homoclinic closures. 90c:58087
- Narnhofer, Heide see Benatti, Fabio, 90b:46102
- Newhouse, Sheldon E. Continuity properties of entropy. 90b:58106
- Corrections to: "Continuity properties of entropy" [Ann. of Math. (2) 129 (1989), no. 2, 215–235; MR 90f:58108]. 90m:58117
- Orey, Steven (with Pelikan, Stephan) Deviations of trajectory averages and the defect in Pesin's formula for Anosov diffeomorphisms. 90a:60057
- Otero-Espinar, M. V. see Glendinning, Paul; et al., 90b:58155
- Paladin, Giovanni see Bessis, D.; et al., 90b:58097
- Pelikan, Stephan see Orey, Steven, 90a:60057
- Pesin, Ya. B. Dimension-like characteristics for invariant sets of dynamical systems. 90b:28011
- Petruand, Catherine Entropie topologique des systèmes spécifiés. (English summary) [Topological entropy of systems with the specification property] 90j:54040
- Poon, Yiu-Tung A K -theoretic invariant for dynamical systems. 90c:46091
- Rychlik, Marek Ryszard Regularity of the metric entropy for expanding maps. 90a:28027
- Sahoo, P. K. see Kannappan, P., 90b:39016
- Salama, Ibrahim A. Topological entropy and recurrence of countable chains. 90d:54076
- Corrections to: "Topological entropy and recurrence of countable chains" [Pacific J. Math. 134 (1988), no. 2, 325–341; MR 90d:54076]. 90b:54055
- Seldier, Gerald T. The topological entropy of homeomorphisms on one-dimensional continua. 90g:54012
- Shields, Paul see Aldous, David J., 90b:60052
- Sinai, Ya. G. About A. N. Kolmogorov's work on the entropy of dynamical systems. 90b:01055
- Stépán, A. M. (with Tagi-Zade, A. T.) A combinatorial interpretation of the entropy of symbolic systems. 90m:95016
- Tagi-Zade, A. T. see Stépán, A. M., 90m:95016
- Tenenbaum, Gérard see Allouche, Jean-Paul; et al., 90b:26033
- Thomas, Romeo F. Topological entropy of fixed-point free flows. 90m:58178
- Tresser, C. see Glendinning, Paul; et al., 90b:58155
- Turchetti, G. see Bessis, D.; et al., 90b:58097
- Vaienti, S. see Bessis, D.; et al., 90b:58097
- Wagoner, J. B. Higher-dimensional shift equivalence and strong shift equivalence are the same over the integers. 90b:54088
- Weiss, Howard N. see Knieper, Gerhard, 90b:58128
- Yomdin, Y. see Kifer, Yuri, 90g:58067
- Yue, Cheng Bo Positive Liapunov exponents do not imply positive metric entropy. 90b:58151
- Zhao, Zao Ling Topological Markov chains—the nonwandering set and topological entropy. (Chinese) 90b:28012

28D99 None of the above, but in this section

- Fedorov, A. L. see Vekslar, A. S., 90b:28035
- Kieffer, John C. An ergodic theorem for constrained sequences of functions. 90d:28025
- Moran, William Ergodic measures for the irrational rotation on the circle. 90b:28013
- Schmidt, Klaus D. Strong ergodicity and quotients of equivalence relations. 90b:28026
- Vekslar, A. S. (with Fedorov, A. L.) Representation of an outer group of a measurable equivalence relation by a group of connected polymorphisms. (Russian) 90b:28035

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- Badii, R. Generalized thermodynamic ensembles for fractal measures. (Italian and Russian

summaries) 90d:58087

- Barnsley, Michael F. (with Elton, John H.; Hardin, D. P.) Recurrent iterated function systems. 90c:58081
- Bojarsky, Abraham see Góra, P.; et al., 90b:58147
- Elton, John H. see Barnsley, Michael F.; et al., 90c:58081
- Góra, P. (with Bojarsky, Abraham; Propp, H.) Constructive approximations to densities invariant under nonexpanding transformations. 90b:58147
- Hardin, D. P. see Barnsley, Michael F.; et al., 90c:58081
- Jajte, Ryszard Contraction semigroups in L^2 over a von Neumann algebra. 90c:46080
- Latushkin, Yu. D. (with Stépán, A. M.) The weighted shift operator on a topological Markov chain. 90d:47034
- Propp, H. see Góra, P.; et al., 90b:58147
- Quasthoff, Uwe On mixing properties of automorphisms of von Neumann algebras related to measure space transformations. 90b:46109
- Stépán, A. M. see Latushkin, Yu. D., 90d:47034
- Tomiyama, Jun ★ Invitation to C^* -algebras and topological dynamics. 90a:46177
- Wen, Zhi Xiong (with Wen, Zhi Ying) Remarques sur la suite engendrée par des substitutions composées. (English summary) [Remarks on the sequence generated by composed substitutions] 90d:11093
- Wen, Zhi Ying see Wen, Zhi Xiong, 90d:11093

28Exx Miscellaneous topics

28E10 Fuzzy measures [see also 03E72]

- Attia, Refaat Hassanein Some properties of m^* -fuzzy measurable sets and construction of fuzzy outer measures. (Arabic summary) 90c:28033
- Fuzzy measures and fuzzy outer measures constructed by means of some known fuzzy outer measures. (Arabic summary) 90c:28034
- Benczúr, András (with József, Sándor) Fuzzy σ -algebras to be generated. (Hungarian. English summary) 90b:28036
- Bolaños, Manuel Jorge (with Lamata, María T.; Moral, S.) Extension of fuzzy measures using monotone expectation. (Spanish. English summary) 90a:28032
- (with de Campos Ibáñez, Luis Miguel; González Muñoz, Antonio) Convergence properties of the monotone expectation and its application to the extension of fuzzy measures. 90b:28038
- see also Campos Ibáñez, Luis Miguel, 90b:28037
- Butnariu, Dan Measurability concepts for fuzzy mappings. 90b:28023
- de Campos Ibáñez, Luis Miguel (with Bolaños, Manuel Jorge) Representation of fuzzy measures through probabilities. 90b:28037
- see also Bolaños, Manuel Jorge; et al., 90b:28038
- Candeloro, Domenico (with Pucci, Sabrina) Radon-Nikodým derivatives and conditioning in fuzzy measure theory. 90d:28026
- Deigado, M. (with Moral, S.) Upper and lower fuzzy measures. 90b:28039
- Dimier, Vesselin Fuzzifying functions. 90b:28040
- Geng, Chun Ren see Zhao, Yi Qiang, 90b:28008
- González Muñoz, Antonio see Bolaños, Manuel Jorge; et al., 90b:28038
- Hua, Wen Xiu Extension theorems for some fuzzy measures. (Chinese. English summary) 90a:28033
- József, Sándor see Benczúr, András, 90b:28036
- Lamata, María T. (with Moral, S.) Classification of fuzzy measures. 90b:28041
- see also Bolaños, Manuel Jorge; et al., 90b:28032
- Li, Mong Lin On additive fuzzy measure space. (Korean. English summary) 90d:28027
- Ma, Ji Feng see Zhang, Wen Xiu, 90b:28007
- Moral, S. see Bolaños, Manuel Jorge; et al., 90b:28032; Deigado, M., 90b:28039 and Lamata, María T., 90b:28041
- Murofushi, Toshiaki (with Sugeno, Michio) An interpretation of fuzzy measures and the Choquet integral as an integral with respect to a fuzzy measure. 90b:28027
- Nanda, Sudarsan On integration of fuzzy mappings. 90b:28042
- Pap, Endre Submeasure characterization of the generalized λ -additive set functions. (Serbo-Croatian summary) 90a:28034
- Piasecki, Krzysztof Extension of fuzzy P -measure generated by usual measure. 90b:28028
- Pucci, Sabrina see Candeloro, Domenico, 90d:28026
- Scullante, Massimo (with Ventre, Aldo G. S.) Representations of the fuzzy integral. 90b:28028
- Sugeno, Michio see Murofushi, Toshiaki, 90b:28027
- Sun, Qing He see Wang, Zhen Yuan, 90b:28024
- Ventre, Aldo G. S. see Scullante, Massimo, 90b:28028
- Wang, Zhen Yuan (with Sun, Qing He) On autocontinuity of fuzzy measures. (Chinese. English summary) 90b:28024
- Ying, Ming Sheng Norm operators on infinitely many variables and a construction of a class of fuzzy measures. (Chinese. English summary) 90b:28043
- Yu, Yan Dong see Zhao, Bao Yu, 90b:28014
- Zhang, Wen Xiu (with Ma, Ji Feng) The Lebesgue decomposition theorem for fuzzy set-valued measures. (Chinese) 90b:28007
- Zhao, Bao Yu (with Yu, Yan Dong) A note on TNF σ -algebras. (Chinese. English summary) 90b:28014
- Zhao, Ru Hui Generalized fuzzy integral. 90d:28028
- Zhao, Yi Qiang (with Geng, Chun Ren) F-valued F -measures and F -integrals with respect to them. (Chinese. English summary) 90b:28008

Items with secondary classifications in 28E10

- Dujet, Christiane Separation and measures of fuzziness. 90d:03116
- Ger, R. Christensen measurability and functional equations. 90b:39023
- Li, Mong Lin On fuzzy probability space. (Korean. English summary) (Not in MR)
- Ma, Ming see Wu, Cong Xin, 90b:46060
- Piasecki, Krzysztof On fuzzy P -measures. (see 90a:00026)
- On fuzzily measurable random variables. 90b:60003

Sgarro, Andrea Fuzziness measures for fuzzy rectangles. 90k:03053

Wu, Cong Xin (with Ma, Ming) Some properties of fuzzy integrable function space $L^1(\mu)$. 90i:46060

28E99 None of the above, but in this section

Items with secondary classifications in 28E99

Hausdorff, H. Packing measures on ultrametric spaces. 90b:28007

Kuznetsov, V. P. Interval measure and integral. (Russian) (see 90k:65004)

Lipovans, O. The probabilistic submeasurability for the statistic space-valued functions. 90c:28007

Masani, P. R. The place of multiplicative integration in modern analysis. 90b:01058

30-XX Functions of a complex variable {For analysis on manifolds, see 58-XX.}

30-00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 30-00

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Reviews in complex analysis ★ Reviews in complex analysis 1980-86. Vol. 1-4. 90b:00013

30-01 Elementary exposition; textbooks

Adams, William J. ★ Elements of complex analysis. 90b:30001

Booker, T. Hoy Bilinear basics. (Not in MR)

Dolicanin, Čemal Matrix theory of circles of the Euclidean plane. (Russian. English and Serbo-Croatian summaries) (Not in MR)

Fedoruk, M. V. see Sidorov, Yu. V.; et al. 90c:30001

Hern, Thomas see Long, Cliff. (Not in MR)

(Kozlov, Ernest) see Markushevich, A. I. 90c:30001

Long, Cliff (with Hern, Thomas) Graphing the complex zeros of polynomials using modulus surfaces. (Not in MR)

Markushevich, A. I. ★ Elementi di teoria delle funzioni analitiche. (Italian) [Elements of the theory of analytic functions] 90f:30001

Shabunin, M. I. see Sidorov, Yu. V.; et al. 90c:30001

Sidorov, Yu. V. (with Fedoryuk, M. V.; Shabunin, M. I.) ★ Лекции по теории функций комплексного переменного. (Russian) [Lectures in the theory of functions of a complex variable] 90c:30001

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(Kalinin, Konstantin) see Krasnov, M. L.; et al. 90b:00014

Kiselev, A. I. see Krasnov, M. L.; et al. 90b:00014

Krasnov, M. L. (with Kiselev, A. I.; Makarenko, G. I.) ★ Funzioni di una variabile complessa. Calcolo operatoriale. Teoria della stabilità. (Italian) [Functions of a complex variable. Operational calculus. Stability theory] 90k:00014

Makarenko, G. I. see Krasnov, M. L.; et al. 90b:00014

(Sislian, Jean) see Smirnov, Vladimir Ivanovich. 90k:00002b

Smirnov, Vladimir Ivanovich ★ Cours de mathématiques supérieures. Tome III. Deuxième partie. (French) [Course of higher mathematics. Vol. III. Part 2] 90k:00002b

30-02 Advanced exposition (research surveys, monographs, etc.)

Fischer, Wolfgang (with Lieb, Ingo) ★ Ausgewählte Kapitel aus der Funktionentheorie. (German) [Selected chapters from function theory] 90d:30001

Hallenbeck, D. J. Recent results in the theory of extreme points, support points and subordination. 90h:30001

Henrici, Peter ★ Applied and computational complex analysis. Vol. 1. 90d:30002

Lieb, Ingo see Fischer, Wolfgang. 90d:30001

Liu, Shu Qin Some results on univalent functions. 90a:30001

(Magnus, Wilhelm) see Siegel, C. L. 90h:30002 and 90h:30003

Ren, Fu Yao Some results on H^p spaces and A^p Bergman spaces. 90a:30002

(Shenitzer, A.) see Siegel, C. L. 90h:30002 and 90h:30003

Siegel, C. L. ★ Topics in complex function theory. Vol. I. 90h:30002

— ★ Topics in complex function theory. Vol. II. 90h:30003

(Solitar, D.) see Siegel, C. L. 90h:30002

(Tretkoff, M.) see Siegel, C. L. 90h:30003

Items with secondary classifications in 30-02

Baker, I. N. Iteration of entire functions: an introductory survey. 90d:30072

Cai, Hai Tao see Li, Guo Ping. 90b:30039

Duren, P. L. Smirnov domains. (Russian summary) 90k:30066

Genia, Yves An introduction to the modern theory of positive functions and some of its today applications to signal processing, circuits and systems problems. 90m:30046

Konias, Paul ★ The logarithmic integral. I. 90a:30097

Li, Guo Ping (with Cai, Hai Tao) ★ Zhunjiexi hanshu lun. (Chinese) [Theory of quasianalytic functions] 90b:30039

Liu, Shu Qin (with Zhang, Yu Lin; Ma, Wan Cang; Ma, Jin Xi) Some results on geometric function theory. (Chinese. English summary) 90d:30049

— (with Zhang, Yu Lin; Ma, Wan Cang; Ma, Jin Xi) Some results in the theory of extreme points and support points. (Chinese. English summary) 90d:30025

Ma, Jin Xi see Liu, Shu Qin; et al. 90d:30025 and 90d:30049

Ma, Wan Cang see Liu, Shu Qin; et al. 90d:30025 and 90d:30049

(McFaden, H. H.) see Reshetnyak, Yu. G. 90d:30067

Reshetnyak, Yu. G. ★ Space mappings with bounded distortion. 90d:30067

Singh, Anand Prakash A glimpse into Nevanlinna's theory of meromorphic functions. 90k:30057

Yang, Chung-chun Some aspects of factorization theory—a survey. 90d:30079

Yang, Le Some results on value distribution theory of entire and meromorphic functions. 90m:30041

Zhang, Yu Lin see Liu, Shu Qin; et al. 90d:30025 and 90d:30049

30-03 Historical (must also be assigned at least one classification number from Section 01)

(Korovkin, P. P.) see Privalov, A. A., (90i:00006)

Privalov, A. A. P. P. Korovkin's work on the theory of functions of a complex variable. (Russian) (see 90i:00006)

Items with secondary classifications in 30-03

Ahlfors, L. V. The joy of function theory. 90m:01046

— see also Baernstein, Albert, II. 90h:30060 and Drasin, David. 90k:30052

Aleksandrov, I. A. (with Milin, I. M.) The Bieberbach conjecture and logarithmic coefficients of univalent functions. (Russian) 90m:30022

Baernstein, Albert, II Ahlfors and conformal invariants. 90h:30060

Belyi, V. I. (with Golub, A. P.; Shevchuk, I. A.) V. K. Dzyadyk's research on the theory of approximating functions of a complex variable. 90f:01054b

Drasin, David The impact of Lars Ahlfors's work in value-distribution theory. 90k:30052

Duma, Andrei Complex numbers in mathematics, mechanics and physics. (Italian) 90i:01017

(Dzyadyk, V. K.) see Belyi, V. I.; et al. 90f:01054b

(Edrei, Albert) see Biography: Edrei, Albert. 90m:01095a and 90m:01095b

(Fuchs, Wolfgang Heinrich Johannes) see Biography: Edrei, Albert. 90m:01095a and 90m:01095b

Golub, A. P. see Belyi, V. I.; et al. 90f:01054b

(Hurwitz, Adolf) see Weierstrass, Karl. 90a:01110

Milin, I. M. see Aleksandrov, I. A. 90m:30022

(Remmert, R.) see Weierstrass, Karl. 90a:01110

Shevchuk, I. A. see Belyi, V. I.; et al. 90f:01054b

Steinmetz, Norbert de Branges' proof of the Bieberbach conjecture. 90g:30018

(Ulrich, Peter) see Weierstrass, Karl. 90a:01110

Ulucay, Cengiz Proof of Bieberbach's conjecture: a survey. (Not in MR)

Weierstrass, Karl ★ Einleitung in die Theorie der analytischen Funktionen. (German) [Introduction to the theory of analytic functions] 90a:01110

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Edrei, Albert Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. 90m:01095a

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Fuchs, Wolfgang Heinrich Johannes Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. 90m:01095a

— Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. 90m:01095b

Biography:

Edrei, Albert Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. 90m:01095a

— Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. 90m:01095b

Fuchs, Wolfgang Heinrich Johannes Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. 90m:01095a

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Hurwitz, Adolf see Weierstrass, Karl. 90a:01110

Weierstrass, Karl Theodor Wilhelm see Weierstrass, Karl. 90a:01110

30-04 Explicit machine computation and programs (not the theory of computation or programming)

Brackx, F. (with Constaes, Denis; Ronveaux, A.; Serras, H.) On the harmonic and monogenic decomposition of polynomials. 90i:30001

Constaes, Denis see Brackx, F.; et al. 90i:30001

Ronveaux, A. see Brackx, F.; et al. 90i:30001

Serras, H. see Brackx, F.; et al. 90i:30001

30-06 Proceedings, conferences, etc.

(Adnadjević, Dušan) see Symposium: Complex Analysis and Applications. 90j:30001

(Komatsu, Yūsaku) see Analytic function theory of one complex variable. 90k:30001

(Niline, Kiyoshi) see Analytic function theory of one complex variable. 90k:30001

(Stollow, Simon) see Proceedings: Commemorative Session: Simon Stollow. 90a:30003

(Yang, Chung-chun) see Analytic function theory of one complex variable. 90k:30001

Items listed otherwise than by author

Analytic function theory of one complex variable ★ Analytic function theory of one complex variable. 90k:30001

Anniversary:

Birth of Stollow, Simon ★ Proceedings of the Commemorative Session: Simon Stollow. 90a:30003

Braşov ★ Proceedings of the Commemorative Session: Simon Stollow. 90a:30003

Herczegovič ★ Third International Symposium on Complex Analysis and Applications. 90j:30001

Proceedings:

Commemorative Session: Simion Stoilow ★ Proceedings of the Commemorative Session: Simion Stoilow. 90a:30003

Session:

Stoilow, Simion ★ Proceedings of the Commemorative Session: Simion Stoilow. 90a:30003

Symposium:

Complex Analysis and Applications ★ Third International Symposium on Complex Analysis and Applications. 90j:30001

Items with secondary classifications in 30-06

- (Cuyt, Annie) see *Nonlinear numerical methods and rational approximation*, 90a:00023
 (Durand, Alain) see *Fifty years of polynomials*, 90j:00018
 (Gohberg, I.) see *Orthogonal matrix-valued polynomials and applications*, 90k:41001
 (Langevin, M.) see *Fifty years of polynomials*, 90j:00018
 (Nikol'skii, N. K.) see *Toeplitz operators and spectral function theory*, 90h:47001
 (Nikol'skii, S. M.) see *Theory of functions and approximations*, 90d:00046 and 90i:00006
 (Waldschmidt, M.) see *Fifty years of polynomials*, 90j:00018
 (Withalm, Claude L.) see *Complex methods on partial differential equations in terms of differential operations*, 90m:00035

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Cinquante ans de polynômes ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Complex analysis and global analysis—from the viewpoint of differential equations

★ Fukusokaiseki to taikikaiseki—bibun hōtoshike no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] 90c:58002

Complex methods on partial differential equations in terms of differential operations

★ Complex methods on partial differential equations in terms of differential operations. (German) 90m:00035

Conference:

Fifty Years of Polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Nonlinear Numerical Methods and Rational Approximation ★ Nonlinear numerical methods and rational approximation. 90a:00023

Fifty years of polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Lecture Notes in Mathematics ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Nonlinear numerical methods and rational approximation ★ Nonlinear numerical methods and rational approximation. 90a:00023

Orthogonal matrix-valued polynomials and applications ★ Orthogonal matrix-valued polynomials and applications. 90k:41001

Paris ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] 90j:00018

Sarason ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] 90d:00046

— ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

School:

Theory of Functions and Approximations ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] 90d:00046

— ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

Seminar: Operator Theory ★ Orthogonal matrix-valued polynomials and applications. 90k:41001

Symposium Complex Analysis and Global Analysis—from the Viewpoint of Differential Equations ★ Fukusokaiseki to taikikaiseki—bibun hōtoshike no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] 90c:58002

Tel Aviv ★ Orthogonal matrix-valued polynomials and applications. 90k:41001

Theory of functions and approximations ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] 90d:00046

— ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

Toeplitz operators and spectral function theory ★ Toeplitz operators and spectral function theory. 90h:47001

Wijk ★ Nonlinear numerical methods and rational approximation. 90a:00023

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Atabev, M. (with Zelinskii, Yu. B.) A theorem on one of the criteria for analyticity of a function. (Russian) 90m:30001

Globevnik, J. Integrals over circles passing through the origin and a characterization of analytic functions. 90d:30003

Nie, Fu Sheng A note on an extremal identity. (Chinese) 90h:30004

Telyakovskii, D. S. Functions that are monogenic in the mean. (Russian) (see 90h:00005)

— Generalization of a theorem of Men'shov on monogenic functions. 90h:30005

Zelinskii, Yu. B. see Atabev, M., 90m:30001

Items with secondary classifications in 30A05

Boghossian, Artin B. (with Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. 90e:26040

Johnson, P. D., Jr. see Boghossian, Artin B., 90e:26040

30A10 Inequalities in the complex domain

Blatt, H.-P. (with Saff, E. B.; Simkani, M.) Jentzsch-Szegő type theorems for the zeros of best approximants. 90a:30004

Saff, E. B. see Blatt, H.-P.; et al., 90a:30004

Simkani, M. see Blatt, H.-P.; et al., 90a:30004

Items with secondary classifications in 30A10

Balasubramanian, Ramachandran (with Ramachandra, K.) A lemma in complex function theory. I. II. 90m:11124

Beauzamy, Bernard Inégalité de Jensen et polynômes concentrés aux bas degrés. [Jensen's inequality and polynomials concentrated at low degrees] (see 90a:00013)

Córdova Y., Antonio (with Ruscheweyh, Stephan) On maximal ranges of polynomial spaces in the unit disk. 90h:30013

Marshall, Donald E. A new proof of a sharp inequality concerning the Dirichlet integral. 90h:30097

Milcetic, John G. On a coefficient conjecture of Brannan. 90d:30006

Ramachandra, K. see Balasubramanian, Ramachandran, 90m:11124

Ruscheweyh, Stephan see Córdova Y., Antonio, 90h:30013

Saitoh, Saburo Inequalities of exponential type for analytic functions with finite Dirichlet integrals. 90c:30008

30A99 None of the above, but in this section

Campos, L. M. B. C. On the branchpoint operator and the annihilation of differentiations. 90d:30004

— On a generalized Mittag-Leffler theorem and implicit differentiation. 90d:30005

Herold, H. Eine Anwendung des Gaußschen Integralsatzes. [An application of the Gaussian integral theorem] 90a:30005

Shisha, Oved Proof of power series and Laurent expansions of complex differentiable functions without use of Cauchy's integral formula or Cauchy's integral theorem. 90m:30002a

— Erratum: "Proof of power series and Laurent expansions of complex differentiable functions without use of Cauchy's integral formula or Cauchy's integral theorem". 90m:30002b

Yuan, Wen Jun An easy way to obtain analytic functions. (Chinese) (Not in MR)

Items with secondary classifications in 30A99

Batchaev, I. M. The Cauchy theorem and residues of an analytic function in domains with a quasiconformal boundary. (Russian) 90d:30114

30Bxx Series expansions

30B10 Power series (including lacunary series)

Arakelyan, N. U. (with Martirosyan, V. A.) The location of singularities of power series on the boundary of the disk of convergence. II. 90c:30001

Bañuelos, Rodrigo (with Moore, Charles N.) Some results in analysis related to the law of the iterated logarithm. 90c:30002

Bézivin, J.-P. Quotients de fonctions entières et quotients de Hadamard de séries formelles. (English summary) [Quotients of entire functions and Hadamard quotients of formal power series] 90k:30002

Fruth, Manfred Zum Konvergenzradius spezieller Cauchyscher Produktreihen. [On the convergence radius of special Cauchy product series] 90k:30003

Gulyaev, G. M. An integral representation for the sum of a power series, and polynomial expansions. 90i:30003

Izralova, M. M. Some theorems of Fatou type for multiple power series. (Russian. Tajiki summary) 90i:30004

Kasana, H. S. Some properties of proximate orders for analytic functions. 90j:30002

Katsoprinakis, E. S. (with Nestoridis, V.) Partial sums of Taylor series on a circle. (French summary) 90k:30004

Martirosyan, V. A. see Arakelyan, N. U., 90c:30001

Maxwell, Th. Potenzreihen die einer Wachstumsbedingung genügen und additive Koeffizienten besitzen. [Power series which satisfy a growth condition and have additive coefficients] 90i:30005

Milcetic, John G. On a coefficient conjecture of Brannan. 90d:30006

Moore, Charles N. see Bañuelos, Rodrigo, 90i:30002

Nestoridis, V. see Katsoprinakis, E. S., 90k:30004

Njåstad, Olav Multipoint Padé approximation and orthogonal rational functions. 90k:30005

Rosenbloom, P. C. Probability distributions associated with power series having nonnegative coefficients. 90m:30003

Items with secondary classifications in 30B10

Akbarov, S. S. Power series with coefficients in nonnormable spaces. (Russian. English and Armenian summaries) 90j:40001

Bernal González, Luis On a theorem of Hardy and Littlewood. 90b:40011

Berretti, Alberto (with Chierchia, Luigi) On the complex analytic structure of the golden invariant curve for the standard map. 90h:58126

Butzer, P. L. (with Schmidt, Michael; Stark, E. L.; Vogt, L.) Central factorial numbers; their main properties and some applications. 90d:05007

Chierchia, Luigi see Berretti, Alberto, 90h:58126

Conrey, J. Brian (with Ghosh, Amit) On the zeros of the Taylor polynomials associated with the exponential function. 90e:30006

Ghosh, Amit see Conrey, J. Brian, 90e:30006

Kapoor, G. P. (with Patel, Jagannath) Univalence of Gelfond-Leont'ev derivatives of functions defined by gap power series. 90d:30047

Knopfmacher, Arnold (with Knopfmacher, John) Infinite products for power series. 90m:40002

- Knopfmacher, John. *see* Knopfmacher, Arnold, 90m:40002
- Knuth, Donald E. (with Wilf, Herbert S.) A short proof of Darboux's lemma. 90i:30065
- Maxwell, Th. Potenzreihen mit fastgeraden Koeffizienten. [Power series with almost even coefficients] 90g:11011
- Patel, Jagannath. *see* Kapoor, G. P., 90d:30047
- Reich, Ludwig. On families of commuting formal power series. 90k:30042
- Schmidt, Michael. *see* Butzer, P. L.; et al., 90d:05007
- Sheremeta, M. N. On the growth of analytic functions. (Ukrainian. Russian summary) (Not in MR)
- Shisha, Oved. Proof of power series and Laurent expansions of complex differentiable functions without use of Cauchy's integral formula or Cauchy's integral theorem. 90m:3002a
- Erratum: "Proof of power series and Laurent expansions of complex differentiable functions without use of Cauchy's integral formula or Cauchy's integral theorem". 90m:3002b
- Skaskiv, O. B. On the Wiman theorem on the minimum modulus of a function that is analytic in the unit disk. 90h:30008
- Stark, E. L. *see* Butzer, P. L.; et al., 90d:05007
- Torriani, Hugo H. Constructive implicit function theorems. 90h:05017
- Trautner, Rolf. Analytische Fortsetzbarkeit von zufälligen Potenzreihen bezüglich abhängiger Zufallsvariablen. (Russian summary) [Analytic continuability of random power series with respect to dependent random variables] 90a:60101
- Vogt, L. *see* Butzer, P. L.; et al., 90d:05007
- Wilf, Herbert S. *see* Knuth, Donald E., 90i:30065

30B20 Random power series

- Gilewicz, Jacek (with Truong-Van, Benoit). Froissart doublets in the Padé approximation and noise. 90h:30006
- Truong-Van, Benoit. *see* Gilewicz, Jacek, 90h:30006
- Xiao, Yi Min. Random power series and α -Bloch functions. (Chinese. English summary) 90a:30006

Items with secondary classifications in 30B20

- Sun, Dao Chun. Borel points of one type of random exponential series. (Chinese. English summary) 90g:30031

30B30 Boundary behavior of power series, over-convergence

- Makarov, N. G. Smooth measures and the law of the iterated logarithm. 90h:30007

Items with secondary classifications in 30B30

- Bernal González, Luis. On a theorem of Hardy and Littlewood. 90b:40011
- Stojanová, Milena. Overconvergence in rational approximation of meromorphic functions. 90h:30094

30B40 Analytic continuation

- Baker, George A., Jr. (with Oitmaa, J.; Velgakis, M. J.) Series analysis of multivalued functions. 90g:30001
- Franklin, Joel. Analytic continuation by the fast Fourier transform. 90m:30004
- Hlev, Lyubomir G. ★ Analytisch nichtfortsetzbare Reihen. (German) [Analytically noncontinuable series] 90m:30005
- Korshunova, N. N. On the problem of analytic continuation from the interior subset of the domain of analyticity. (Russian) 90j:30003
- Odvirko-Budko, B. I. (with Tuvalova, S. A.) Estimates for conditional stability on the basis of a continuation algorithm. (Russian) 90c:30002
- On analytic continuation from an arc of a curve. (Russian) 90j:30004
- Oitmaa, J. *see* Baker, George A., Jr.; et al., 90g:30001
- Tuvalova, S. A. *see* Odvirko-Budko, B. I., 90c:30002
- Uzakov, M. M. Stability of a multidimensional problem of the analytic continuation of a bounded analytic function from Jacobi nodes. (Russian) 90d:30007
- Velgakis, M. J. *see* Baker, George A., Jr.; et al., 90g:30001

Items with secondary classifications in 30B40

- Arakelyan, N. U. (with Martirosyan, V. A.) The location of singularities of power series on the boundary of the disk of convergence. II. 90c:30001
- Katsoprinakis, E. S. (with Nestoridis, V.) Partial sums of Taylor series on a circle. (French summary) 90k:30004
- Kovacheva, R. K. Generalized Padé approximants of Kakehashi's type and meromorphic continuation of functions. 90b:41028
- Lê Hông Sơn. The problem of continuation in generalized complex analysis and its applications. (Vietnamese) (Not in MR)
- Martinez Finkelshtein, Andrei. On the m th row of Newton type (α, β) -Padé tables and singular points. 90c:30047
- Martirosyan, V. A. *see* Arakelyan, N. U., 90c:30001
- Nestoridis, V. *see* Katsoprinakis, E. S., 90k:30004
- Strakhov, V. N. Analytic continuation and a solution of an inverse problem in gravimetry. (Russian) 90g:56009
- Tovmasyan, N. E. Analytic continuation of solutions of higher-order homogeneous nonregularly elliptic equations in the plane. 90j:35041
- Trautner, Rolf. Analytische Fortsetzbarkeit von zufälligen Potenzreihen bezüglich abhängiger Zufallsvariablen. (Russian summary) [Analytic continuability of random power series with respect to dependent random variables] 90a:60101

30B50 Dirichlet series and other series expansions, exponential series [see also 40-XX, 41-XX, 42-XX]

- Berenstein, Carlos A. (with Struppa, Daniele C.) Dirichlet series and convolution equations. 90d:30008

- Bezkravnyi, Yu. D. Some properties of matrix polynomials and Faber series. (Russian) 90b:30002
- Ibragimov, G. I. Representation of regular functions by Dirichlet series in a closed domain. (Russian. English and Azerbaijani summaries) 90a:30007
- Kahane, Jean-Pierre. The last problem of Harald Bohr. 90f:30002
- Khromov, A. P. *see* Molodenkov, V. A., 90d:00046
- Krutigolova, E. K. *see* Mel'nik, Yu. I., 90c:30004
- Kumar, Naresh (with Srivastava, G. S.) On the coefficients of analytic functions of fast growth. 90a:30008
- Lyubarskii, Yu. I. Series of exponentials in spaces of functions that are defined on curves. 90c:30003
- Mel'nik, Yu. I. (with Krutigolova, E. K.) Properties of some special exponential series with complex exponents. 90c:30004
- Mo, Ye. The Hadamard product of Legendre series. 90i:30006
- Molodenkov, V. A. (with Khromov, A. P.) Expansion of functions in Dirichlet series on convex closed polygons. (Russian) (see 90d:00046)
- Skaskiv, O. B. On the Wiman theorem on the minimum modulus of a function that is analytic in the unit disk. 90h:30008
- Sorokivskii, V. M. On the behavior in a half strip of analytic functions that are represented by Dirichlet series. (Ukrainian. Russian summary) (Not in MR)
- Srivastava, G. S. *see* Kumar, Naresh, 90a:30008
- Struppa, Daniele C. *see* Berenstein, Carlos A., 90d:30008
- Vianitskii, B. V. Effective expansion of analytic functions in series in generalized systems of exponentials. 90j:30005

Items with secondary classifications in 30B50

- Agrawal, Purshottam Narain. *see* Kasana, H. S.; et al., 90c:30041
- Alibekov, G. A. *see* Dzaydyk, V. K., 90k:30073
- Avdonin, S. A. (with Jód, István) Riesz bases of exponentials and sine-type functions. 90g:42058
- (Bohr, Harald) *see* Kahane, Jean-Pierre, 90k:11116
- Dzaydyk, V. K. (with Alibekov, G. A.) Summation of the Faber series by linear Riesz and Fejér methods in domains with a piecewise-smooth boundary. (Russian) 90k:30073
- Grechanyuk, N. I. Behavior of the maximum term of a multiple Dirichlet series that represents an entire function. 90j:32004
- Hoischen, Lothar. Asymptotische Approximation stetiger Funktionen durch Funktionenreihen. [Asymptotic approximation of continuous functions by function series] 90c:41066
- Ibragimov, G. I. Convergence of a double Dirichlet series in a product of closed polygons. 90h:32001
- Jód, István. *see* Avdonin, S. A., 90g:42058
- Kahane, Jean-Pierre. Around Bohr's thesis. 90k:11116
- Kasana, H. S. (with Agrawal, Purshottam Narain; Singh, M. P.) The growth of coefficients of entire Dirichlet series and its derivatives. 90c:30041
- Kumar, Naresh (with Srivastava, G. S.) The mean values of real part of entire functions having index pair (p, q) . 90d:30003
- Liu, Quan Sheng. On the growth of some random hyper-Dirichlet series. 90m:30033
- Rizvi, M. I. *see* Srivastava, S. N., 90a:30079
- Safin, R. R. Representation of entire functions by generalized series of exponentials. (Russian) (see 90d:41001)
- Sharma, Poonam. On the geometric means of an entire Dirichlet series of order (R) zero. 90g:30028
- Singh, M. P. *see* Kasana, H. S.; et al., 90c:30041
- Srivastava, G. S. *see* Kumar, Naresh, 90d:30003
- Srivastava, S. N. (with Rizvi, M. I.) On the geometric means of an entire function represented by Dirichlet series. 90a:30079
- Sun, Dao Chun. Borel points of one type of random exponential series. (Chinese. English summary) 90g:30031

30B60 Completeness problems, closure of a system of functions

- Avetisyan, A. E. Completeness and minimality of the system of functions $\{E_p(\lambda_k z; \mu)\}_1^\infty$. 90d:30009
- Chul, C. K. (with Shen, Xie Chang) On completeness of the system $\{(1 - \bar{a}_i z)^{-\alpha-1}\}$ in $A^p(\rho)$. 90a:30009
- Dzhhrbashyan, M. M. (with Grigorian, N. V.) A new generalization of the classical theorem of G. Szegő. 90b:30003
- Grigorian, N. V. *see* Dzhhrbashyan, M. M., 90b:30003
- Grigorian, Souren Arshakovich. A property of almost-periodic analytic functions. 90b:30009
- Ibragimov, F. I. *see* Ibragimov, I. I., 90c:30002
- Ibragimov, I. I. (with Ibragimov, F. I.) Multiple completeness in the sense of M. V. Keldysh of some systems of analytic functions. (Russian) 90c:30002
- Kalinin, S. I. On the completeness of a system of exponential monomials. (Russian) (see 90d:41001)
- Kar'min, Yu. A. A theorem on the basis property for systems close to one another and its applications. 90h:30010
- Martirosyan, V. M. The closure and property of being a basis of some systems of rational functions. (Russian. English and Armenian summaries) 90f:30003
- Shen, Xie Chang. *see* Chul, C. K., 90a:30009

Items with secondary classifications in 30B60

- Avetisyan, A. E. Completeness of some systems of entire functions on finite segments. (Russian. Armenian summary) 90d:30106
- Bikmukhametov, I. Kh. Estimation of a polynomial of generalized exponentials in an angle. (Russian) (see 90d:41001)
- Linchuk, N. E. Representation of commutants of a Pommiez operator and their applications. 90a:47079

30B70 Continued fractions [see also 11A55, 40A15]

- Brezinaki, Claude On the asymptotic behaviour of continued fractions. 90a:30010
- Čanak, Miloš S. Die Anwendung der verzweigten komplexen Kettenbrüche in der Theorie der nichtanalytischen Funktionen. [The application of branching complex continued fractions in the theory of nonanalytic functions] 90g:30002
- Jacobsen, Lisa Approximants for functions represented by limit periodic continued fractions. 90j:30006
- (with Thron, W. J.; Waadeland, H.) Some observations on the distribution of values of continued fractions. 90j:30007
- (with Waadeland, H.) A result on nearness of functions and their regular C -fraction expansions. 90d:30010
- Jones, William B. Schur's algorithm extended and Schur continued fractions. 90h:30011
- López Lagomasino, Guillermo Convergence of Padé approximants for meromorphic functions of Stieltjes type and comparative asymptotics for orthogonal polynomials. 90g:30003
- Masson, David R. Some continued fractions of Ramanujan and Meixner-Pollaczek polynomials. 90j:30007
- Njåstad, Olav Laurent continued fractions corresponding to pairs of power series. 90a:30011
- Thron, W. J. see Jacobsen, Lisa; et al., 90j:30007
- Waadeland, H. Some recent results in the analytic theory of continued fractions. 90h:30012
- see also Jacobsen, Lisa, 90d:30010 and 90j:30007

Items with secondary classifications in 30B70

- Achuthan, P. (with Ponnuswamy, S.) A theorem of Ramanujan and conversion of continued fractions into power series. 90a:11014
- Baltus, Christopher (with Jones, William B.) Truncation error bounds for modified continued fractions with applications to special functions. 90h:65021
- Cooper, S. Clement (with Magnus, Arne; Jones, William B.) General T -fraction solutions to Riccati differential equations. 90j:34006
- Hendriksen, E. (with Njåstad, Olav) Positive multipoint Padé continued fractions. 90j:40002
- Hovstad, R. M. A short proof of a continued fraction test for the stability of polynomials. 90a:30013
- Jones, William B. (with Thron, W. J.) Continued fractions in numerical analysis. 90e:65021
- (with Thron, W. J.) Contraction of the Schur algorithm for functions bounded in the unit disk. 90i:30041
- see also Baltus, Christopher, 90h:65021 and Cooper, S. Clement; et al., 90j:34006
- Levrie, Paul Pringsheim's theorem revisited. 90b:40004
- Magnus, Arne see Cooper, S. Clement; et al., 90j:34006
- Nakada, Hitoshi On metric Diophantine approximation of complex numbers, complex continued fractions. 90f:11067
- Njåstad, Olav Contractive Laurent fractions and nested discs. 90e:30035
- see also Hendriksen, E., 90j:40002
- Ponnuswamy, S. see Achuthan, P., 90a:11014
- Thron, W. J. L -polynomials orthogonal on the unit circle. 90j:30059
- see also Jones, William B., 90e:65021 and 90i:30041

30B99 None of the above, but in this section

- Bulanov, A. P. Convergence of multiple powers. (Russian) (see 90i:00006)
- Nishiwada, Kimimasa A holomorphic structure of the arithmetic-geometric mean of Gauss. 90f:30004

Items with secondary classifications in 30B99

- Wood, B. Uniform approximation with positive linear operators generated by binomial expansions. 90d:41044

30Cxx Geometric function theory**30C10 Polynomials**

- Aziz, Abdul¹ Integral mean estimates for polynomials with restricted zeros. 90a:30012
- Beauzamy, Bernard Inégalité de Jensen et polynômes concentrés aux bas degrés. [Jensen's inequality and polynomials concentrated at low degrees] (see 90a:00013)
- Belyaev, V. A. A description of the structure of a set of convergence of a sequence of polynomials in the complex plane. (Russian) (see 90i:00006)
- Bidkham, M. (with Dewan, K. K.) Bounds for the zeros of polynomials. 90i:30008
- Cachafeiro López, Ma. Alicia (with Marcellán, Francisco) Orthogonal polynomials and jump modifications. 90b:30004
- Córdova Y., Antonio (with Ruscheweyh, Stephan) On maximal polynomial ranges in circular domains. 90f:30005
- (with Ruscheweyh, Stephan) On maximal ranges of polynomial spaces in the unit disk. 90b:30013
- Dewan, K. K. see Bidkham, M., 90i:30008
- Fabre, Caroline La meilleure constante pour un produit de polynômes. (English summary) [The best constant for a product of polynomials] 90d:30011
- Govil, N. K. On the maximum modulus of polynomials not vanishing inside the unit circle. 90i:30006
- Huang, Jian On a conjecture about polynomials. (Chinese) 90h:30014
- Luo, Jin Yun Discussion of a conjecture. (Chinese) 90e:30005
- Marcellán, Francisco (with Rodríguez, Isabel) A class of matrix orthogonal polynomials on the unit circle. 90i:30009
- see also Cachafeiro López, Ma. Alicia, 90b:30004
- Rodríguez, Isabel see Marcellán, Francisco, 90i:30009
- Ruscheweyh, Stephan see Córdova Y., Antonio, 90f:30005 and 90b:30013

Items with secondary classifications in 30C10

- Ahmadi, M. see Erfani, S.; et al., (Not in MR)
- Barbeau, E. J. ★ Polynomials. 90f:12001
- Beauzamy, Bernard A minimization problem connected with a generalized Jensen inequality. 90m:30048
- Bikmukhametov, I. Kh. Estimation of a polynomial of generalized exponentials in an angle. (Russian) (see 90d:41001)
- (Bos, Ralph P.) see Krein, M. G.; et al., 90f:26016
- Boghossian, Artin B. (with Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. 90e:26040
- Chevskii, V. M. The distribution of the zeros of some meromorphic functions. (Russian) 90j:30008
- Generalization of a theorem of Laguerre. 90i:30010
- Dewan, K. K. On the location of zeros of polynomials. 90e:30004
- Durand, Alain Quelques aspects de la théorie analytique des polynômes. I, II. [Some aspects of the analytic theory of polynomials. I, II] 90m:12003
- Erfani, S. (with Ahmadi, M.; Ramachandran, Venkat) The general recurrence relation for arbitrary rational transformation of polynomials. (Not in MR)
- Gautschi, Walter On the zeros of polynomials orthogonal on the semicircle. 90f:30006
- Giroux, André see Newman, Donald J., 90h:30017
- Johnson, P. D., Jr. see Boghossian, Artin B., 90e:26040
- Katsoprinakis, E. S. (with Nestoridis, V.) Partial sums of Taylor series on a circle. (French summary) 90k:30004
- Kędzierawski, A. (with Waniurski, J.) Bi-univalent polynomials of small degree. 90h:30045
- Krein, M. G. (with Levin, B. Ya.; Nudelman, A. A.) On a special representation of polynomials that are positive on a system of closed intervals. 90f:26016
- Landau, H. J. Polynomials orthogonal in an indefinite metric. (see 90k:41001)
- Levin, B. Ya. see Krein, M. G.; et al., 90f:26016
- Marcellán, Francisco (with Pérez Grasa, I.) The moment problem on equipotential curves. 90f:30042
- Milcetic, John G. On a coefficient conjecture of Brannan. 90d:30006
- Miller, Michael J. Maximal polynomials and the Ilieff-Sendov conjecture. 90m:30007
- Nestoridis, V. see Katsoprinakis, E. S., 90k:30004
- Neval, Paul (with Totik, V.) Orthogonal polynomials and their zeros. 90i:33021
- Newman, Donald J. (with Giroux, André) Properties on the unit circle of polynomials with unimodular coefficients. 90h:30017
- Nudelman, A. A. see Krein, M. G.; et al., 90f:26016
- Pérez Grasa, I. see Marcellán, Francisco, 90f:30042
- Qiu, Wei Yuan On the construction of convergent iterative sequences of polynomials. 90i:30042
- Ramachandran, Venkat see Erfani, S.; et al., (Not in MR)
- Robinson, Zalman An efficient method for the K -continuation of a polynomial. 90d:30013
- Saffari, Bahman (with Smith, Brent) Inexistence de polynômes ultra-plats de Kahane à coefficients ± 1 . Preuve de la conjecture d'Erdős. (English summary) [Nonexistence of ultra-flat Kahane polynomials with coefficients ± 1 . Proof of the Erdős conjecture] 90k:11108
- Smith, Brent see Saffari, Bahman, 90k:11108
- Thron, W. J. L -polynomials orthogonal on the unit circle. 90j:30059
- Totik, V. see Neval, Paul, 90i:33021
- Tulovsky, Vladimir On perturbations of roots of polynomials. 90m:30009
- Varga, Richard S. Scientific computation on some mathematical conjectures. 90k:00049
- Wallet, G. Comment É. Picard désingularisait une courbe algébrique plane complexe. [How É. Picard desingularized a complex algebraic plane curve] (see 90j:03116)
- Waniurski, J. see Kędzierawski, A., 90h:30045

30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) (For algebraic theory, see 12D10; for real methods, see 26C10.)

- Aliev, T. G. see Tamrazov, P. M., (90d:00046)
- Boese, F. G. (with Luther, W. J.) A note on a classical bound for the moduli of all zeros of a polynomial. 90h:30015
- Bose, N. K. see Delansky, J. F., 90c:30003
- Brown, Johnny E. On the Ilieff-Sendov conjecture. 90d:30012
- Chevskii, V. M. The distribution of the zeros of some meromorphic functions. (Russian) 90j:30008
- Generalization of a theorem of Laguerre. 90i:30010
- Conrey, J. Brian (with Ghosh, Amit) On the zeros of the Taylor polynomials associated with the exponential function. 90e:30006
- Cuoradas, G. (with Varga, Richard S.) Fourier transforms and the Hermite-Biehler theorem. 90b:30005
- Dallakyan, R. V. Zeros of functions that are analytic in a disk and allow growth near its boundary. (Russian. Armenian summary) 90h:30016
- Delansky, J. F. (with Bose, N. K.) Schur stability and stability domain construction. 90c:30003
- Dewan, K. K. On the location of zeros of polynomials. 90e:30004
- Dilcher, Karl (with Stolarsky, Kenneth B.) Zeros of certain rational approximations to the cosecant. 90j:30009
- Foo, Y. K. see Soh, Y. C., 90b:30006
- Gautschi, Walter On the zeros of polynomials orthogonal on the semicircle. 90f:30006
- Ghosh, Amit see Conrey, J. Brian, 90e:30006
- Giroux, André see Newman, Donald J., 90h:30017
- Hovstad, R. M. A short proof of a continued fraction test for the stability of polynomials. 90a:30013
- Kannan, V. Converses of Lucas's theorem. 90m:30006
- Lepsky, A. (with Mian, G. A.; Viaro, U.) Euclid-type algorithm and its applications. 90E:30007
- Luther, W. J. see Boese, F. G., 90h:30015

- Mian, G. A. *see* Lepachy, A.; et al. 90f:30007
- Miller, Michael J. Maximal polynomials and the Ilieff-Sendov conjecture. 90m:30007
- Newman, Donald J. (with Giroux, André) Properties on the unit circle of polynomials with unimodular coefficients. 90h:30017
- Nicolas, Jean-Louis (with Schinzel, A.) Localisation des zéros de polynômes intervenant en théorie du signal. [Location of the zeroes of polynomials arising in signal theory] 90e:30007
- Rubinstein, Zalman An efficient method for the K -continuation of a polynomial. 90d:30013
- Schinzel, A. *see* Nicolas, Jean-Louis, 90h:30007
- Soh, Y. C. (with Foo, Y. K.) Generalized edge theorem. 90b:30006
- Stolarsky, Kenneth B. *see* Dlicher, Karl, 90j:30009
- Tamrazov, P. M. (with Aliev, T. G.) Accounting for zeros and for nonunivalent holomorphic functions in contour-solid theorems. (Russian) (see 90d:00046)
- Todorov, P. G. Über die Verteilung der Nullstellen von zwei assoziierten Klassen von ganzen und gebrochenrationalen Funktionen. (Russian and Polish summaries) [On the distribution of zeros of two associated classes of entire and broken-rational functions] 90e:30007
- Tornehave, Hans On the zeros of entire almost periodic functions. 90m:30008
- Tudor, Gheorghe M. Sur la répartition des zéros d'une classe de fonctions. (Romanian summary) [On the distribution of zeros of a class of functions] 90h:30018
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- Wagner, Gerold Sala On a problem of Erdős, Herzog and Piranian. 90d:30014
- Wang, Xiao Jun The new geometric criterion of polynomial stability. 90a:30014
- Yi, Hong Xun On zeros of differential polynomials. (Chinese. English summary) 90j:30010
- Zaher, Neyamat On pseudo polar-derivatives of abstract polynomials. 90j:30011
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- Alpay, Daniel (with Gohberg, I.) On orthogonal matrix polynomials. (see 90k:41001)
- Anagnost, John J. *see* Minnichelli, Robert J.; et al., 90i:93114
- Argous, Mohammad B. On the stability of low-order perturbed polynomials. 90m:93109
- Averisyan, A. E. Entire functions of order ρ ($1 < \rho < 2$). 90m:30034
- Barmish, B. Ross An extreme point result for robust stability of discrete-time interval polynomials. (see 90m:93004)
- *see also* Fu, Minyue, 90e:93081
- Barsegayan, G. A. Distributions of the roots of meromorphic functions. (Russian) 90d:30009
- Barszcz, Marek Roots localization for neutral equations and their sensitivity for a change of delay. 90h:34165
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- Berry, Michael Victor Semiclassical formula for the number variance of the Riemann zeros. 90e:81037
- Bhattacharyya, Shankar Prasad *see* Chapellat, Hervé, 90e:93079
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- Chuang, Yao T'ang Strictly Hurwitz property analysis for polynomials with uncertain coefficients. 90i:93108
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- Cucker, Felipe (with Gonzalez Corbalan, Antonio) An alternate proof of the continuity of the roots of a polynomial. 90h:12003
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- Foo, Y. K. (with Soh, Y. C.) Root clustering of interval polynomials in the left-sector. 90i:93110
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- Guadalupe Garcia, Rafael *see* Torrano, E., 90h:42044
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- Ismail, Mourad E. H. (with Muldoon, M. E.) Zeros of combinations of Bessel functions and their derivatives. 90k:33022
- Kim, K. D. *see* Bose, N. K., 90i:93106
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- Mori, Takehiro (with Fukuma, N.) Convergence condition for convex combinations of two polynomials. 90j:93098
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- Orchard, H. J. The Laguerre method for finding the zeros of polynomials. (Not in MR)
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- Petković, M. S. ★ Iterative methods for simultaneous inclusion of polynomial zeros. 90i:65090
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- Sentenac, Pierrette *see* Flexor, Marguerite, 90d:30076
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- Soh, Y. C. (with Foo, Y. K.) On the existence of strong Kharitonov theorems for interval polynomials. (see 90m:93004)
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- Tempo, Roberto A dual result to Kharitonov's theorem. 90m:93115
- Torrano, E. (with Guadalupe Garcia, Rafael) Zeros of orthogonal polynomials on harmonic algebraic curves. 90h:42044
- Uchimura, Keisuke Zeros of the Chebyshev polynomials in two variables z and \bar{z} . (Italian summary) 90i:33026
- Ullman, Joseph L. Orthogonal polynomials for general measures. 90g:42050
- Varga, Gyula A class of total-step methods for calculation of zeros of polynomials. (Hungarian. English summary) 90m:65102
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- Wójcik, Adam P. On a distribution of zeros of polynomials of the best uniform approximation to C^k functions. (Polish summary) 90j:41048
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- Xiao, Liang On complete minimal surfaces with parallel and flat ends. 90d:53015
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- Zehet, Ezra Necessary and sufficient conditions for root clustering of a polytope of polynomials in a simply connected domain. (Not in MR)

30C20 Conformal mappings of special domains

- Brasolara, Melkana A. On asymptotic behaviour of some conformal strip mappings. 90f:30008
- Emelyanov, A. P. Boundary values of an integral of Cauchy type for the conformal mapping of the unit disk onto a star-shaped domain. (Russian) (see 90m:00040)

- Gonor, A. L. An error in the theory of conformal mappings of similar domains and in its application to a flow around a profile. **90b:30007**
- Goodman, A. W. The complete multivalence of Čakalov-Distler sums. **90i:30011**
- Grudskii, I. M. The Christoffel-Schwarz formula for polyhedral surfaces. **90m:30010**
- Huang, Xin Min see Yue, Feng, **90a:30016**
- Makarov, N. G. Probability methods in the theory of conformal mappings. (Russian) **90i:30006**
- Michalčák, Johannes (with Wehrhahn, Rodolfo) Parametrization of domains in \mathbb{C} : the logarithmic domains. **90a:30009**
- Richardson, Stanley An identity arising in a problem of conformal mapping. **90h:30019**
- Smith, Wayne Stewart (with Stegenga, David A.) Hölder domains and Poincaré domains. **90i:30012**
- Solynin, A. Yu. Separation of continua by circles. (Russian) **90a:30015**
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- Yue, Feng (with Huang, Xin Min) Another proof of the formula for mapping of polygons. (Chinese. English summary) **90a:30016**

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- Dittmar, Bodo Monotonie bei Stekloffschen Eigenwerten. (English summary) [Monotonicity in Steklov eigenvalues] **90g:35038**
- Fan, Tian You Analysis of moving and growing crack coupled by nonlinear deformation. **90e:73102**
- Levin, B. Ya. The connection of a majorant with a conformal mapping. II. (Russian) **90a:31002**
- Classification of closed sets on \mathbb{R} and representation of a majorant. III. (Russian) **90a:31003**
- Zayed, Ahmed I. Jacobi polynomials as generalized Faber polynomials. **90m:33015**
- Zinsmeister, Michel Les domaines de Carleson. [Carleson domains] **90i:30054**

30C25 Covering theorems in conformal mapping theory

- Brannan, D. A. (with Lyzzaik, A. K.) Some covering properties of locally univalent functions. **90c:30005**
- Fernández, José Luis Cudra (with Heinonen, Juha; Martio, O.) Quasilinear and conformal mappings. **90a:30017**
- Heinonen, Juha see Fernández, José Luis Cudra; et al., **90a:30017**
- Lyzzaik, A. K. see Brannan, D. A., **90c:30005**
- Martio, O. see Fernández, José Luis Cudra; et al., **90a:30017**

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- Styer, David (with Wright, Donald J.) Convex functions with restricted curvature. **90i:30025**
- Wright, Donald J. see Styer, David, **90i:30025**

30C30 Numerical methods in conformal mapping theory [see also 65E05]

- Earle, Clifford J. Angular derivatives of the barycentric extension. **90g:30004**
- Hansen, Lowell J. On the Rodin and Sullivan ring lemma. **90c:30008**
- Hoy, Erich Charakterisierung und Berechnung von quasikonformen Abbildungen mittels Ritz-Verfahren. [Characterization and calculation of quasiconformal mappings using the Ritz method] **90i:30013**
- Kortanets, V. V. Application of polynomials, deviating least from zero, with constraints, to the problem of conformal mapping. **90d:30015**
- Krikeles, Basil C. (with Rubin, Richard L.) On the crowding of parameters associated with Schwarz-Christoffel transformations. **90a:30018**
- Papamichael, N. Numerical conformal mapping onto a rectangle with applications to the solution of Laplacian problems. **90m:30011**
- Pulato, S. I. see Vabishchevich, P. N., **90f:30009**
- Rubin, Richard L. see Krikeles, Basil C., **90a:30018**
- Vabishchevich, P. N. (with Pulato, S. I.) A numerical algorithm for conformal mapping. (Russian) **90f:30009**
- Voikov, E. A. An approximate conformal mapping of the exterior of a parabola with a hole onto a ring. **90d:30016**
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- Luchini, Paolo (with Manzo, Fernando) Flow around simply and multiply connected bodies: a new iterative scheme for conformal mapping. **90a:76022**
- Manzo, Fernando see Luchini, Paolo, **90a:76022**
- O'Donnell, S. T. (with Rokhlin, Vladimir V.) A fast algorithm for the numerical evaluation of conformal mappings. **90b:65034**
- Rokhlin, Vladimir V. see O'Donnell, S. T., **90b:65034**

30C35 General theory of conformal mappings

- Belyi, V. I. On Hölder continuity of the Riemann mapping function. **90d:30017**
- Moduli of continuity of exterior and interior conformal mappings of the unit disk. **90j:30012**
- Dubinin, V. N. On distortion theorems in the theory of conformal mappings. (Russian) **90k:30010**
- A separating transformation of domains, and problems on extremal decomposition. (Russian) **90c:30006**
- Hamilton, D. H. Conformal distortion of boundary sets. **90h:30020**
- Huber, Alfred Konforme Verheftung und logarithmisches Potential. [Conformal sewing and logarithmic potential] **90g:30005**
- Karunakaran, V. (with Ponnusamy, S.) Differential subordination and conformal mappings. I. **90h:30021**

- Leutwiler, Heinz A Riemannian metric invariant under Möbius transformations in \mathbb{R}^n . **90c:30009**

- Mocanu, Petru T. Conformal mappings and refraction law. **90k:30011**
- Ponnusamy, S. see Karunakaran, V., **90h:30021**
- Rodin, Burt (with Sullivan, Dennis) The convergence of circle packings to the Riemann mapping. **90c:30007**
- Rohde, S. On an estimate of Makarov in conformal mapping. **90h:30022**
- Schmieder, Gerald A characterization of Jordan domains in terms of conformal automorphisms. **90f:30010**
- Shlyk, V. A. On a theory of normal domains. (Russian) **90k:30012**
- Sullivan, Dennis see Rodin, Burt, **90c:30007**

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- Andrievskii, V. V. Metric properties of the Riemann mapping function for a domain that is the complement of a continuum without exterior zero angles. (Russian. English and Armenian summaries) **90j:30061**
- Gonor, A. L. An error in the theory of conformal mappings of similar domains and in its application to a flow around a profile. **90b:30007**
- Kuznetsov, V. O. Properties of associated quadratic differentials in some extremal problems. (Russian) **90h:30057**
- Malmesku, V. V. The J -property of Jordan arcs. **90d:30110**
- Makarov, N. G. Smooth measures and the law of the iterated logarithm. **90h:30007**
- Michalčák, Johannes (with Wehrhahn, Rodolfo) Parametrization of domains in \mathbb{C} : the logarithmic domains. **90a:30009**
- Rodin, Burt Schwarz's lemma for circle packings. II. **90m:11099**
- Tukia, Pekka A rigidity theorem for Möbius groups. **90i:20051**
- Wehrhahn, Rodolfo see Michalčák, Johannes, **90a:30009**
- Wohlhauer, Alfred Konforme und quasikonforme Abbildungen und das Krümmungsverhalten von Kurvenscharen. (English summary) [Conformal and quasiconformal mappings and the curvature behavior of families of curves] **90i:30036**
- Xiao, Jie² Bergman, quasihyperbolic metrics and Bloch-kernel functions on the bounded domains. (Chinese summary) **90i:30016**

30C40 Kernel functions and applications

- Abramyan, A. V. Zeros of the Szegő kernel. (Russian. Armenian summary) (Not in MR)
- Alfaro, Ma. Pilar (with Vigil, Luis) On extensions of finite sequences of orthogonal polynomials. **90i:30015**
- Pestre, Jaak Hankel forms on multiply connected plane domains. I. The case of connectivity two. **90j:30013**
- Saitoh, Saburo Inequalities of exponential type for analytic functions with finite Dirichlet integrals. **90c:30008**
- Vigil, Luis see Alfaro, Ma. Pilar, **90i:30015**
- Xiao, Jie² Bergman, quasihyperbolic metrics and Bloch-kernel functions on the bounded domains. (Chinese summary) **90i:30016**

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- Cai, Hui Jing The Bergman kernel of a class of generalized analytic functions. (Chinese. English summary) **90a:30138**
- Jakóbczak, Piotr (with Mazur, Tomasz) On discontinuity of L^2 -angle. **90j:32024**
- Mazur, Tomasz see Jakóbczak, Piotr, **90j:32024**
- Saitoh, Saburo ★ Theory of reproducing kernels and its applications. **90f:46045**

30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)

- Abdul Halim, S. On the coefficients of some Bazilevic functions of order. **90h:30023**
- Ahmad, Faiz Two subclasses of starlike and convex functions. **90c:30010**
- Ahuja, O. P. (with Owa, Shigeyoshi) Classes of functions defined by convolutions. **90a:30019**
- (with Silverman, Herb) Function classes related to Ruscheweyh derivatives. **90j:30014**
- (with Silverman, Herb) Classes of functions whose derivatives have positive real part. **90c:30011**
- Al-Amiri, H. S. Prestarlike functions of order α and type β with negative coefficients. (Russian and Polish summaries) **90i:30017**
- Altıntaş, Osman On the coefficient of certain analytic functions. (Turkish. English summary) **90m:30012**
- see also Owa, Shigeyoshi, **90m:30019**
- Anh, V. V. Starlike functions with a fixed coefficient. **90a:30020**
- Aouf, M. K. A generalization of multivalent functions with negative coefficients. II. **90c:30010**
- A generalization of multivalent functions with negative coefficients. **90c:30009**
- On spiral-like functions of order α and type β with fixed second coefficient. (Serbo-Croatian summary) **90f:30011**
- Bounded spiral-like functions with fixed second coefficient. **90a:30021**
- A generalization of multivalent functions with negative coefficients. **90h:30024**
- On a class of univalent functions with negative coefficients. **90d:30018**
- see also Owa, Shigeyoshi, **90a:30039**; **90h:30039** and **90m:30020**
- Arvi, Yusuf Univalent functions with the monotonic modulus property. **90d:30019**
- Bhargava, Srinivasamurthy (with Nanjunda Rao, S.) Convexity of a class of functions related to classes of starlike functions and functions with boundary rotation. **90h:30025**
- (with Nanjunda Rao, S.) On linear combinations of n convex functions of order α . **90d:30020**
- Brandt, Manfred ★ Variationsmethoden für in der Einheitskreisscheibe schlichte Polynome. (German) [Variational methods for polynomials univalent in the unit disk] **90f:30012**
- Brannan, D. A. (with Taha, T. S.) On some classes of bi-univalent functions. **90a:30022**
- Brickman, Louis (with Wilken, D. R.) Measures and extremal problems. **90a:30023**
- Brui, I. N. On the strong constructive characterization of analytic functions of Hölder classes. (Russian) (Not in MR)
- Bulboacă, Teodor Differential subordinations by convex functions. **90c:30011**

- On some properties of Alexander integral. 90c:30012
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- Causey, W. M. *see* Nunokawa, Mamoru, 90a:30035
- Cazacu, Eleonora (with Moldovan, S.; Pascu, Nicolae N.) On the univalence of a certain integral. 90c:30013
- Chandra, Sushael Starlikeness of a bounded analytic function. 90a:30024
- Chandhary, A. M. *see* Shukla, S. L., 90a:30046; 90c:30012 and Kumar, Vinod¹, 90k:30016
- Ch'én, Ming Po (with Lan, I Jén) On α -convex functions of order β of Ruscheweyh type. 90c:30012
- *see also* Nunokawa, Mamoru; et al., 90b:30013 and Owa, Shigeyoshi, 90k:30022
- Cho, Nak Eun On certain subclasses of univalent functions. 90c:30013
- *see also* Lee, Sang Hun; et al., 90g:30007
- Ding, Shu Sen The order of starlikeness and the estimate for the order of convexity of integral operators. 90d:30021
- On starlike integral operators. 90f:30013
- Duren, P. L. (with Schober, Glenn) Linear extremal problems for harmonic mappings of the disk. 90a:30025
- El-Ashwah, Rabha Md. (with Thomas, D. K.) Some subclasses of close-to-convex functions. 90b:30008
- Elhosh, M. M. On a subclass of Bazilevich functions. 90b:30026
- Fournier, Richard Starlike univalent functions bounded on the real axis. 90b:30027
- On integrals of bounded analytic functions in the closed unit disc. 90f:30014
- Fuka, Jaroslav On a class of univalent functions. 90g:30006
- Fukui, Seichi Linear combinations of starlike and convex functions of order α with complex coefficients. 90b:30009
- (with Ren, Fu Yao; Owa, Shigeyoshi; Nunokawa, Mamoru) On certain multivalent functions. 90k:30013
- *see also* Nunokawa, Mamoru; et al., 90a:30033; 90b:30013 and Saitoh, Hitoshi; et al., 90k:30023
- Ganigi, M. D. Fixed coefficients for certain univalent functions with negative coefficients. II. 90k:30014
- *see also* Uralagaddi, B. A., 90d:30040; 90f:30029 and 90i:30026
- Gao, Jian Fu Functions that remain univalent when the arguments of the coefficients are changed. (Chinese. English summary) 90a:30026
- Godula, Janusz (with Nowak, Maria) Integral means of α -strongly starlike functions. 90a:30027
- (with Krawczyk, Dariusz; Ponnusamy, S.) On the convexity and starlikeness of certain integrals. (Russian and Polish summaries) 90f:30015
- Goodman, A. W. The coefficients of an infinite valent function. 90k:30015
- Hallenbeck, D. J. (with Tkaczynska, Katarzyna) Extreme points and support points of subordination families with p -valent majorants. 90j:30015
- Harmelin, Reuben Locally convex functions and the Schwarzian derivative. 90m:30014
- Hilton, J. W. (with Schwartz, D. F.) Polynomially contractible sets. 90f:30016
- Jahangiri, M. On the gap between two classes of analytic functions. 90f:30016
- Juneja, O. P. (with Reddy, T. R.) Meromorphic starlike univalent functions with positive coefficients. (Russian and Polish summaries) 90d:30022
- *see also* Mogra, M. L., 90c:30017
- Kaczmarek, Jerzy On the curvature of level-lines of some class of k -symmetrical functions. (Russian and Polish summaries) 90d:30023
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- Kahanpää, Lauri A regular curve that cannot be covered with finitely many chord-arc curves. 90k:30028
- Kakehashi, Tetsujiro A note on close-to-convex functions (an application of Schwarz-Christoffel formula). 90b:30010
- Kanas, Stanislaw (with Stankiewicz, Jan; Moleda, Alicja) On some subclasses of the classes of Bazilevich functions. (Russian and Polish summaries) 90a:30028
- (with Lecko, Adam; Stankiewicz, Jan) On some classes of the regular functions. (Russian and Polish summaries) 90b:30011
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- Karunakaran, V. *see* Ponnusamy, S., 90i:30023
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- McMullen, Curt. Amenability, Poincaré series and quasiconformal maps. 90c:30048
- Nowak, Maria. On a certain class of meromorphic and univalent functions. (Russian and Polish summaries) 90c:30019
- see also Godula, Janusz, 90a:30027
- (Radok, J. R. M.) see Lavrent'ev, M. A., 90k:35088
- Taniguchi, Masahiko. Abelian differentials with normal behavior and complex pinching deformation. 90d:30123
- Wegert, E. Boundary value problems and extremal problems for holomorphic functions. 90k:30105

30C75 Extremal problems for conformal and quasiconformal mappings, other methods

- Kuz'mina, G. V. On extremal properties of quadratic differentials with end domains in the structure of trajectories. (Russian) 90i:30037
- Kuznetsov, V. O. Properties of associated quadratic differentials in some extremal problems. (Russian) 90h:30057
- Luo, Dong Han. Support points of multivalent functions. (Chinese. English summary) 90h:30058
- Marshall, Donald E. (with Sundberg, Carl) Harmonic measure and radial projection. 90h:30027
- Solynin, A. Ya. Solution of the Pólya-Szegő isoperimetric problem. (Russian) 90h:30059
- Sundberg, Carl see Marshall, Donald E., 90h:30027

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- Anderson, G. D. (with Vamanamurthy, Marina K.; Vuorinen, Matti) Inequalities for the extremal distortion function. 90c:30022
- Andreev, V. V. (with Duren, P. L.) Inequalities for logarithmic coefficients of univalent functions and their derivatives. 90c:30026
- Bulboacă, Teodor. Applications of the Briot-Bouquet differential subordination. 90m:30013
- Colonna, Flavia. The Bloch constant of bounded harmonic mappings. 90k:31002
- Córdova Y., Antonio (with Ruscheweyh, Stephan) On maximal ranges of polynomial spaces in the unit disk. 90k:30013
- Dubinin, V. N. A separating transformation of domains, and problems on extremal decomposition. (Russian) 90c:30006
- Duren, P. L. see Andreev, V. V., 90c:30026
- FitzGerald, Carl H. An extremal problem for harmonic functions. 90c:31001
- Hu, Ke. The successive coefficients of univalent functions. 90c:30028
- Nishimoto, Katsuyuki (with Owa, Shigeyoshi) A remark on p -valently α -convex functions. 90c:30016
- Owa, Shigeyoshi see Nishimoto, Katsuyuki, 90c:30016
- Qin, Song Liang. Comment: "On the K -quasiconformal covering problem in space" [Hunan Daxue Xuebao 13 (1986), no. 3, 222–230; MR 88d:30030]. (Chinese. English summary) 90d:30065
- The angular distortion of K -q.c. [mappings] of the unit disk onto itself. (Chinese summary) 90a:30066
- Reich, Edgar (with Shapiro, Harold S.) Teichmüller-type annihilators of L^1 -analytic functions. 90k:30035
- Ren, Fu Yao. Three conjectures of Reich on Teichmüller extremal quasiconformal mappings. (Chinese. English summary) 90m:30027
- Ruscheweyh, Stephan see Córdova Y., Antonio, 90h:30013
- Shapiro, Harold S. see Reich, Edgar, 90k:30035
- Strebel, Kurt. On the extremality and unique extremality of certain Teichmüller mappings. 90c:30025
- Vamanamurthy, Marina K. see Anderson, G. D.; et al., 90c:30022
- Vuorinen, Matti see Anderson, G. D.; et al., 90c:30022
- Walker, James Stephan. An elementary proof of a theorem of Lelong. 90g:31001

30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination

- Abu-Muhanna, Yusuf (with Hallenbeck, D. J.) Subordination families and extreme points. 90a:30072
- (Ahlfors, L. V.) see Baernstein, Albert, II, 90h:30060
- Baernstein, Albert, II. Ahlfors and conformal invariants. 90h:30060
- Elbosh, M. M. On subordination of the derivative of starlike functions. 90a:30073
- Fukui, Seichi (with Owa, Shigeyoshi; Obradović, Milutin; Nunokawa, Mamoru) Certain functions which do not assume nonpositive real values. 90i:30038
- Hallenbeck, D. J. see Abu-Muhanna, Yusuf, 90a:30072
- Manjini, R. see Padmanabhan, K. S., 90h:30061
- Nunokawa, Mamoru see Fukui, Seichi; et al., 90i:30038 and Owa, Shigeyoshi; et al., 90k:30040
- Obradović, Milutin. A property of the class of functions whose derivative has a positive real part. 90j:30037
- see also Fukui, Seichi; et al., 90i:30038 and Owa, Shigeyoshi; et al., 90k:30040
- Owa, Shigeyoshi (with Obradović, Milutin; Nunokawa, Mamoru) On certain analytic functions and subordinations. 90k:30040
- see also Fukui, Seichi; et al., 90i:30038
- Padmanabhan, K. S. (with Manjini, R.) Differential subordination and meromorphic functions. 90h:30061

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- Aziz, Abdul. Integral mean estimates for polynomials with restricted zeros. 90a:30012
- Bulboacă, Teodor. Differential subordinations by convex functions. 90c:30011
- Carl, S. A maximum principle for a class of generalized analytic functions. 90d:30127

- Colonna, Flavia. The Bloch constant of bounded harmonic mappings. 90k:31002
- Hallenbeck, D. J. (with MacGregor, T. H.) Radial growth and variation of bounded analytic functions. 90a:30090
- (with Tkaczyńska, Katarzyna) Extreme points and support points of subordination families with p -valent majorants. 90j:30015
- Karunakaran, V. (with Ponnusamy, S.) Differential subordination and conformal mappings. I. 90h:30021
- see also Ponnusamy, S., 90i:30023
- Kwon, E. G. Fractional integration and the hyperbolic derivative. 90a:30096
- Liczborski, Piotr. Jack's lemma for holomorphic mappings in C^* . (Russian and Polish summaries) 90a:32004
- Liu, Xiang Yang. Applications of differential subordination to univalent functions. 90j:30020
- MacGregor, T. H. see Hallenbeck, D. J., 90a:30090
- Marshall, Donald E. (with Sundberg, Carl) Harmonic measure and radial projection. 90h:30027
- Mishra, Akshaya Kumar. Some applications of Schwarz lemma for operators. 90h:47018
- Mocanu, Petru T. On starlike images by Alexander integral. 90c:30016
- Integral operators and starlike functions. 90d:30028
- Molejda, Alicja. New classes of regular functions. (Russian and Polish summaries) 90c:30018
- Obradović, Milutin (with Owa, Shigeyoshi) A criterion for starlikeness. 90i:30020
- Overholt, Marius. The extreme points of the set of Schwarzians of univalent functions. 90h:30056
- Owa, Shigeyoshi. On starlike, convex and close-to-convex functions of complex order. 90h:30016
- see also Obradović, Milutin, 90i:30020
- Padmanabhan, K. S. (with Parvatham, R.; Radha, S.) On a Mocanu type generalization of the Kaplan class $K(\alpha, \beta)$ of analytic functions. 90f:30024
- Parvatham, R. see Padmanabhan, K. S.; et al., 90f:30024
- Ponnusamy, S. (with Karunakaran, V.) Differential subordination and conformal mappings. 90i:30023
- see also Karunakaran, V., 90h:30021
- Radha, S. see Padmanabhan, K. S.; et al., 90f:30024
- Ramachandra, K. An application of Borel-Carathéodory theorem. 90j:30034
- Royden, H. L. Hyperbolicity in complex analysis. 90h:32054
- Sakaguchi, Kōichi. On convex functions. 90b:30017
- Shanmugam, T. N. Convolution and differential subordination. 90c:30018
- Sundberg, Carl see Marshall, Donald E., 90h:30027
- Tkaczyńska, Katarzyna see Hallenbeck, D. J., 90j:30015
- Younis, R. Support points of certain families of analytic functions. 90a:30051
- Zderkiewicz, J. On a generalized problem of M. Biernacki for subordinate functions. (Russian and Polish summaries) 90a:30052

30C85 Capacity and harmonic measure in the complex plane [see also 31A15]

- Bishop, Christopher J. (with Carleson, L.; Garnett, J. B.; Jones, Peter Wilcox) Harmonic measures supported on curves. 90d:30069
- Carleson, L. see Bishop, Christopher J.; et al., 90d:30069
- Garnett, J. B. see Bishop, Christopher J.; et al., 90d:30069
- Jones, Peter Wilcox see Bishop, Christopher J.; et al., 90d:30069
- Overholt, Marius (with Schober, Glenn) Transfinite extent. 90m:30028
- Quine, J. R. On the harmonic measure of slit domains. 90h:30062
- Schober, Glenn see Overholt, Marius, 90m:30028
- Shlyk, V. A. K -capacity and some of its applications in the theory of mappings with bounded distortion. 90k:30041

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- (Ahlfors, L. V.) see Baernstein, Albert, II, 90h:30060
- Baernstein, Albert, II. Ahlfors and conformal invariants. 90h:30060
- Dubinin, V. N. A separating transformation of domains, and problems on extremal decomposition. (Russian) 90c:30006
- Haliste, K. On an extremal configuration for capacity. 90i:31007
- Heinonen, Juha (with Martio, O.) Estimates for F -harmonic measures and Øksendal's theorem for quasiconformal mappings. 90c:30035
- Jenkins, J. A. On quasiconformal mappings with given boundary values. 90b:30024
- Jones, Peter Wilcox (with Wolff, Thomas H.) Hausdorff dimension of harmonic measures in the plane. 90j:31001
- Lopes, Artur Oscar. A note on δ -equilibrium measures for rational maps. 90i:31008
- Makarov, N. G. Probability methods in the theory of conformal mappings. (Russian) 90k:30008
- Marshall, Donald E. (with Sundberg, Carl) Harmonic measure and radial projection. 90h:30027
- Martio, O. Sets of zero elliptic harmonic measures. 90i:31009
- see also Heinonen, Juha, 90c:30035
- Rohde, S. On an estimate of Makarov in conformal mapping. 90h:30022
- Stahl, Herbert. On the convergence of generalized Padé approximants. 90i:30063
- Sundberg, Carl see Marshall, Donald E., 90h:30027
- Wolff, Thomas H. see Jones, Peter Wilcox, 90j:31001

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- Bonk, M. (with Wirths, K.-J.) Über Häufungsstellen stationärer Punkte. [On the limiting points of stationary points] 90i:30039
- Hoy, Erich. Area theorems and Fredholm eigenvalues. 90d:30070
- Harri, Ritva. Poincaré domains in R^n . 90a:30074
- Nolder, Craig A. (with Oberlin, Daniel M.) Moduli of continuity and a Hardy-Littlewood theorem. 90d:30071
- Oberlin, Daniel M. see Nolder, Craig A., 90d:30071

- Smith, Wayne Stewart (with Stegenga, David A.) Poincaré domains in the plane. 90c:30038
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- Bezkravnyi, Yu. D. Some properties of matrix polynomials and Faber series. (Russian) 90b:30082
 Lounesto, Pertti (with Springer, Arthur) Möbius transformations and Clifford algebras of Euclidean and anti-Euclidean spaces. 90d:30131
 Sekigawa, Hisao A theorem on the limit sets of quasiconformal deformations of infinitely generated Fuchsian groups of the first kind. 90b:30108
 Springer, Arthur *see* Lounesto, Pertti, 90d:30131
 Stephenson, Kenneth Concerning the Gross star theorem. 90c:30045
 Yamashita, Shinji Meromorphic Lipschitz functions. 90a:30093

30Dxx Entire and meromorphic functions, and related topics

- Yoshino, Kunio On Carlson's theorem for holomorphic functions. 90i:30040

30D05 Functional equations in the complex domain, iteration and composition of analytic functions [see also 34A20, 39-XX]

- Azarina, Yu. V. Invariant analytic curves for entire functions. 90j:30038
 Baker, I. N. Iteration of entire functions: an introductory survey. 90d:30072
 — (with Bhattacharyya, Prodipswar) On a class of nonembeddable entire functions. 90j:30039
 Bergweiler, Walter On the fix-points of composite functions. 90m:30029
 Bhattacharyya, Prodipswar *see* Baker, I. N., 90j:30039
 Borelli Forti, Costanza (with Forti, Gian Luigi) On entire functions additive on graphs. 90b:30063
 Borwein, J. M. (with Borwein, P. B.) On the mean iteration $(a, b) \rightarrow ((a + 3b)/4, (\sqrt{ab} + b)/2)$. 90a:30075
 Borwein, P. B. *see* Borwein, J. M., 90a:30075
 Branner, Rodi (with Hubbard, John H.) The iteration of cubic polynomials. I. The global topology of parameter space. 90d:30073
 Cheng, Jiu Yi On the Julia set of the polynomial $f(z) = pz + z^m$ with p real. 90d:30074
 Ermenko, A. E. Some functional equations connected with the iteration of rational functions. (Russian) 90m:30030
 Fenýš, I. (with Paganoni, L.) A functional equation which characterizes the Jacobian $sn(z, k)$ functions. (Italian summary) 90b:30028
 — (with Paganoni, L.) A functional equation from the theory of Jacobian elliptic functions. (Italian, English summary) 90d:30075
 Flexor, Marguerite (with Sentenac, Pierrette) Algorithmes de Newton généralisés. (English summary) [Generalized Newton algorithms] 90d:30076
 Forti, Gian Luigi *see* Borelli Forti, Costanza, 90b:30063
 Haruki, H. An improvement of the Nevanlinna-Pólya theorem. 90a:30076
 Heins, Maurice A theorem of Wolff-Denjoy type. 90d:30077
 Hua, Xin Hou On the primality and factorization of exponential functions. (Chinese summary) 90j:30027
 Hubbard, John H. *see* Branner, Rodi, 90d:30073
 Jones, William B. (with Thron, W. J.) Contraction of the Schur algorithm for functions bounded in the unit disk. 90i:30041
 Levin, Genadii Mironovich On the theory of iterations of polynomial families in the complex plane. (Russian) 90j:30040
 Li, Bao Qiu (with Song, Guo Dong¹) On Goldbach problem concerning factorization of meromorphic functions. 90m:30031
 Liao, Liang Wen (with Song, Guo Dong¹) Existence of a prime entire function of finite order whose even powers are not pseudoprime. (Chinese, English summary) 90f:30035
 Paganoni, L. *see* Fenýš, I., 90b:30028 and 90d:30075
 Perko, Richard Some remarks on a generalization of the Jabotinsky equation. 90j:30041
 Pittman, Franz Ein elementarer Beweis eines Faktorisierungssatzes für ganze Funktionen. [An elementary proof of a factorization theorem for entire functions] 90m:30032
 Qiu, Wei Yuan On the construction of convergent iterative sequences of polynomials. 90i:30042
 Reich, Ludwig On families of commuting formal power series. 90b:30042
 Segal, S. L. Iterative characterizations of powers and exponentials. 90j:30042
 Sentenac, Pierrette *see* Flexor, Marguerite, 90d:30076
 Sibuya, Y. Nontrivial entire solutions of the functional equation $f(\lambda) + f(\omega\lambda)f(\omega^{-1}\lambda) = 1$, $\omega^3 = 1$. 90c:30039
 Singh, Anand Prakash A note on right factor of an entire function. 90i:30043
 Song, Guo Dong¹ (with Yang, Chung-chun) Research problems in factorization theory of entire and meromorphic functions. 90b:30064
 — *see also* Liao, Liang Wen, 90f:30035 and Li, Bao Qiu, 90m:30031
 Thron, W. J. *see* Jones, William B., 90i:30041
 Urabe, Hiroshige (with Yang, Chung-chun) Uniquely factorizable entire functions under composition. 90d:30078
 Wang, Shan Zhu (with Yang, Yu Zhen) On primality of the product of a polynomial and a periodic exponential function. (Chinese, English summary) 90k:30043
 Yang, Chung-chun Some aspects of factorization theory—a survey. 90d:30079
 — *see also* Urabe, Hiroshige, 90d:30078 and Song, Guo Dong¹, 90b:30064
 Yang, Yu Zhen *see* Wang, Shan Zhu, 90k:30043
 Zheng, Jian Hua On permutability of periodic entire functions. 90d:30080
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- Abate, Marco Common fixed points of commuting holomorphic maps. 90k:32074
 Baker, I. N. Infinite limits in the iteration of entire functions. 90c:58070
 Barnsley, Michael F. (with Hardin, D. P.) A Mandelbrot set whose boundary is piecewise smooth. 90m:58100
 Béivin, J.-P. Solutions rationnelles de certaines équations fonctionnelles. [Rational solutions of some functional equations] 90c:11015
 Bogatyř, S. A. Local indices of iterations of a holomorphic mapping. 90b:58046
 Bonk, M. (with Wirths, K.-J.) Über Häufungstellen stationärer Punkte. [On the limiting points of stationary points] 90i:30039
 Chojnacki, Wojciech On some holomorphic dynamical systems. 90a:58093
 Daróczy, Zoltán (with Kátai, Imre) On a functional equation with polynomials. 90b:39014
 Denker, Manfred (with Seck, Christoph) A short proof of a theorem of Ruelle. 90m:58101
 Devaney, Robert L. (with Keen, Linda) Dynamics of maps with constant Schwarzian derivative. 90b:58122
 — (with Keen, Linda) Dynamics of tangent. 90c:58093
 — (with Keen, Linda) Dynamics of meromorphic maps: maps with polynomial Schwarzian derivative. 90c:58071
 Doual, Nasser (with Howland, James L.; Vaillancourt, Rémi) Global iterative solutions of elementary transcendental equations. 90m:65099
 Ermenko, A. E. (with Levin, Genadii Mironovich) Periodic points of polynomials. (Russian) 90m:58102
 Gehring, F. W. (with Martin, G. J.) Iteration theory and inequalities for Kleinian groups. 90k:30086
 Gross, Fred (with Osgood, Charles F.) A simpler proof of a theorem of Steinmetz. 90i:30047
 von Haeseler, F. (with Peitgen, Heinz-Otto) Newton's method and complex dynamical systems. 90a:58102
 Handler, Ivan (with Kauffman, Louis H.; Sandin, Dan) On crossing the boundary of the Mandelbrot set. 90c:58084
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 Keen, Linda Dynamics of holomorphic self-maps of \mathbb{C}^* . 90c:58075
 — *see also* Devaney, Robert L., 90b:58122; 90c:58071 and 90c:58093
 Lakhtakia, Akhlesh (with Lakhtakia, Mercedes N.) Ramanujan and the Julia set of the iterated exponential map. 90a:58082
 Lakhtakia, Mercedes N. *see* Lakhtakia, Akhlesh, 90a:58082
 Levin, Genadii Mironovich *see* Ermenko, A. E., 90m:58102
 Li, Wen Rong (with Si, Jian Guo) Continuous solutions and analytic solutions of two classes of functional equations. (Chinese) 90b:39014
 Lopes, Artur Oscar The complex potential generated by the maximal measure for a family of rational maps. 90c:58099
 Ma, Li Zhi (with Yang, Chung-chun) On factorization of a certain class of entire functions. 90k:30050
 Martin, G. J. *see* Gehring, F. W., 90k:30086
 Milnor, John Self-similarity and hairiness in the Mandelbrot set. 90c:58086
 Nauenberg, Michael (with Schellhuber, H. J.) Analytic evaluation of the multifractal properties of a Newtonian Julia set. 90b:58183
 Nersisyan, Ashot A. Decomposition of functions that can be approximated by analytic functions. (Russian, English and Armenian summaries) 90f:30048
 Nie, Fu Sheng A note on an extremal identity. (Chinese) 90b:30004
 Osgood, Charles F. *see* Gross, Fred, 90i:30047
 Paganoni, L. (with Paganoni Marzegalli, Stefania) Holomorphic solutions of an inhomogeneous Cauchy equation. 90c:39013
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 — *see also* Paganoni, L., 90c:39013
 Peitgen, Heinz-Otto (with Prüfer, M.; Schmitt, Klaus) Global aspects of the continuous and discrete Newton method: a case study. 90d:58068
 — (with Jürgens, Hartmut) Fractals: computer experiments with (de)mystifying complex-structures. (Norwegian, English summary) 90f:58088
 — *see also* von Haeseler, F., 90a:58102
 Peng, Shou Li Inverse itinerary sequences and Hausdorff dimensions of disconnected Julia set. 90b:58127
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30D10 Representations of entire functions by series and integrals

- Golightly, George O. Coefficients in sine series expansions of special entire functions. 90a:30077
- Juneja, O. P. (with Srivastava, G. S.) A note on entire Dirichlet series of perfectly regular growth. 90a:30078
- Karimov, Z. Sh. Estimation of an entire function defined by a Dirichlet series with sparse exponents. (Russian) (see 90d:41001)
- Kasana, H. S. (with Prasad, Govind) Maximum term and its rank of an entire Dirichlet series. 90b:30065
- Lia, Quan Sheng On the growth of some random hyper-Dirichlet series. 90m:30033
- Lyubarskii, Yu. I. The Paley-Wiener theorem for convex sets. 90b:30029
- Prasad, Govind see Kasana, H. S., 90a:30065
- Rizvi, M. I. see Srivastava, S. N., 90a:30079
- Safin, R. R. Representation of entire functions by generalized series of exponentials. (Russian) (see 90d:41001)
- Sharma, Poonam On the geometric means of an entire Dirichlet series of order (R) zero. 90g:30028
- Srivastava, G. S. see Juneja, O. P., 90a:30078
- Srivastava, S. N. (with Rizvi, M. I.) On the geometric means of an entire function represented by Dirichlet series. 90a:30079
- Sun, Dao Chun see Yu, Jia Rong, 90b:30066
- Yu, Jia Rong (with Sun, Dao Chun) On the distribution of values of random Dirichlet series. I. 90b:30066

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- Gl'mudinov, R. Z. Expansion of entire functions of several complex variables in quasi-power bases. (Russian) (see 90d:41001)
- McDonald, John N. An extreme absolutely continuous RP-measure. 90k:32005
- Wu, Min On the growth of entire functions defined by gap Dirichlet series. (Chinese) (Not in MR)

30D15 Special classes of entire functions and growth estimates

- Agrawal, Purshottam Narain see Kasana, H. S.; et al., 90c:30041
- As, Hai Long The growth of the composition of an entire function and a meromorphic function. (Chinese. English summary) 90k:30044
- Avetisyan, A. E. Entire functions of order ρ ($1 < \rho < 2$). 90m:30034
- Bazylewicz, A. Critère de reconnaissabilité de fonctions analytiques et fonctions entières arithmétiques. (Recognizability criterion for analytic functions and arithmetical entire functions) 90b:30030
- Bergweiler, Walter Order and lower order of composite meromorphic functions. 90f:30036
- Bernal, Luis G. A generalized convergence exponent of a complex sequence. (Spanish. English summary) 90d:30081
- Boichuk, V. S. Simple construction of an entire function with a given indicator with respect to a given entire proximate order. (Russian) 90a:30080
- Gaisin, A. M. The growth of a function, represented by a Dirichlet series, on a ray. (Russian) (see 90d:41001)
- Gal, Yu. M. see Sheremeta, M. N., 90g:30029
- Govil, N. K. (with Jain, Vinod Kumar) An integral inequality for entire functions of exponential type. (Russian and Polish summaries) 90b:30067
- Grishin, A. F. (with Sodin, M. L.) Growth on a ray, distribution of roots by arguments of an entire function of finite order, and a uniqueness theorem. (Russian) 90c:30040
- Hwang, Jun Shung On uniqueness theorems for entire functions tending to zero along disjoint arcs. 90d:30082
- Jain, Vinod Kumar see Govil, N. K., 90b:30067
- Juneja, O. P. see Kapoor, G. P.; et al., 90j:30043
- Kapoor, G. P. (with Juneja, O. P.; Patel, Jagannath) Growth of entire functions with some univalent Gelfond-Leont'ev derivatives. 90j:30043
- Kasana, H. S. (with Agrawal, Purshottam Narain; Singh, M. P.) The growth of coefficients of entire Dirichlet series and its derivatives. 90c:30041
- On the coefficients of entire functions with index-pair (p, q) . 90a:30081
- Khabibullin, B. N. On the growth of entire functions of exponential type along the imaginary axis. (Russian) 90j:30044
- Growth of entire functions of exponential type along the imaginary axis. 90a:30082
- Khan, Abdul Hakim see Khan, Mumtaz Ahmad, 90b:30068
- Khan, Mumtaz Ahmad (with Khan, Abdul Hakim) An algebraic study of a class of integral functions. 90b:30068
- Kumar, Naresh (with Srivastava, G. S.) The mean values of real part of entire functions having index pair (p, q) . 90d:30083
- Lahiri, Indrajit Growth of composite integral functions. 90k:30045
- Mera, Ruben N. Generalization of a classical theorem of Pólya and Szegő. 90b:30031
- Patel, Jagannath see Kapoor, G. P.; et al., 90j:30043
- Rahman, Q. I. (with Schmeisser, G.) L^p inequalities for entire functions of exponential type. 90k:30046
- Rizvi, S. R. H. Interpolation series and approximation of entire functions. 90b:30032
- Salimov, F. G. The mean square value of entire functions that are represented by multiple Dirichlet series. (Russian. English and Azerbaijani summaries) 90b:30069
- Schmeisser, G. see Rahman, Q. I., 90k:30046
- Shell-Small, T. On the zeros of $L' + L^2$ for certain rational functions L . 90c:30042
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- Analogues of the Borel theorem for analytic functions. (Ukrainian. Russian summary) (Not in MR)
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- Singh, M. P. see Kasana, H. S.; et al., 90c:30041
- Skaskiv, O. B. Growth of an entire function that satisfies an n th-order differential equation with exponential coefficients and that can be represented by the Dirichlet series. (Ukrainian. Russian summary) 90k:30047
- Growth of entire Dirichlet series of Riesz zero order. (Ukrainian. Russian summary) (Not in MR)

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- Steinmetz, Norbert Exceptional values of solutions of linear differential equations. 90k:30044
- Tarig, Q. M. An inequality for entire functions of exponential type. 90b:30070
- Wu, Min On the growth of entire functions defined by gap Dirichlet series. (Chinese) (Not in MR)
- Yang, Le Growth and angular distribution of entire functions. 90m:30035
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- Csordas, G. (with Varga, Richard S.) Fourier transforms and the Hermite-Biehler theorem. 90b:30005
- Hayman, W. K. Ahlfors' theorem on asymptotic values and some developments from it. 90d:30084
- Huérano, Ruth S. see Charris Castañeda, Jairo A., 90m:46038
- Juneja, O. P. (with Srivastava, G. S.) A note on entire Dirichlet series of perfectly regular growth. 90a:30078
- Kasana, H. S. Some properties of proximate orders for analytic functions. 90j:30002
- Korevaar, J. Interpolation by entire functions in C —another look. 90a:30098
- Kumar, Naresh (with Srivastava, G. S.) On the coefficients of analytic functions of fast growth. 90a:30008
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- Sarangi, S. M. (with Patil, S. J.) On deficient values of meromorphic functions. 90b:30035
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- Tornehave, Hans On the zeros of entire almost periodic functions. 90m:30008
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- Azarin, V. S. (with Giner, V. B.) A criterion for the existence of an entire function with a given limit set. (Russian. English summary) 90c:30044
- Bhale, N. S. A generalized Cauchy estimate. 90a:30083
- Gallimov, I. S. Approximation of solutions of an equation of infinite order by means of elementary solutions. (Russian) 90b:30033
- Gl'mudinova, A. Ya. Sequences of entire functions with "big" gaps in the zeros. (Russian) (see 90d:41001)
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- Khom'yak, M. M. Analogues of the Wiman theorem for Dirichlet series that define entire functions of finite lower R -order. (Ukrainian. Russian summary) (Not in MR)
- Kim, Young-One A proof of the Pólya-Wiman conjecture. 90k:30049
- Leont'eva, L. A. A generalized derivative in an arbitrary domain. 90j:30045
- Ma, Li Zhi (with Yang, Chung-chun) On factorization of a certain class of entire functions. 90k:30050
- Marut'yan, V. A. Uniqueness theorems for entire functions in terms of their Taylor coefficients. (Russian. English and Armenian summaries) 90j:30045
- Mullaev, M. U. A space, conjugate to $E^p(\mathcal{D})$ ($1 \leq p < \infty$), and a simple generalization of the Wiener-Paley theorem. (Russian) (see 90d:41001)
- Mustafin, R. F. Representation of the solution of an infinite-order equation in the form of the limit of a sequence of partial sums of a series of elementary solutions. (Russian) (see 90d:41001)
- Shell-Small, T. On the zeros of the derivatives of real entire functions and Wiman's conjecture. 90a:30084
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- Somasundaram, D. (with Thamizharasi, R.) The functions of bounded index as a subspace of the space of entire functions represented by Dirichlet series with given exponent. 90j:30046
- Stephenson, Kenneth Concerning the Gross star theorem. 90c:30045
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- Veselovskaya, O. V. On the lower order of an entire function. (Ukrainian. Russian summary) (Not in MR)
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- Govil, N. K. (with Jain, Vinod Kumar) An integral inequality for entire functions of exponential type. (Russian and Polish summaries) 90h:30067
- Ibragimov, F. I. *see* Ibragimov, I. I., 90c:30002
- Ibragimov, I. I. (with Ibragimov, F. I.) Multiple completeness in the sense of M. V. Keldysh of some systems of analytic functions. (Russian) 90c:30002
- Jain, Vinod Kumar *see* Govil, N. K., 90h:30067
- Khadzhinski, Vanya On the best L_p -approximation on the real line by entire functions of exponential type. (Bulgarian. English and Russian summaries) 90b:30046
- Kozitskii, Yu. V. (with Mel'nik, N. O.) Eigenfunctions of infinite-order differential operators in a class of entire functions. (Russian) 90f:47067
- Kuzbekov, T. T. Generators in a ring of entire functions of exponential type. (Russian) (see 90d:41001)
- Lahiri, Indrajit Growth of composite integral functions. 90h:30045
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- Popenov, S. V. A class of weighted spaces of entire functions. (Russian) (see 90d:41001)
- Rahman, Q. I. (with Schmeisser, G.) On a Gaussian quadrature formula for entire functions of exponential type. 90f:65046
- Rossi, John The Tsuji characteristic and real zeros of solutions of second order ordinary differential equations. 90b:34007
- Sarangi, S. M. (with Patil, S. J.) On deficient values of meromorphic functions. 90b:30035
- Schmeisser, G. *see* Rahman, Q. I., 90f:65046
- Segal, S. L. Iterative characterizations of powers and exponentials. 90j:30042
- Shel-Small, T. On the zeros of $L' + L^2$ for certain rational functions L . 90c:30042
- Singh, Anand Prakash On a class of slowly changing functions. 90c:26005
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- Veselovskaya, O. V. Approximation and growth of entire functions that are harmonic in \mathbb{R}^n . (Ukrainian. Russian summary) (Not in MR)
- Walliser, R. V. On entire functions assuming integer values in a geometric sequence. 90j:11067
- Yang, Le Growth and angular distribution of entire functions. 90m:30035
- Zheng, Jian Hua On permutability of periodic entire functions. 90d:30080

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- Jin, Lu¹ Angular distributions of entire functions. (Chinese) 90f:30037
- Kondratyuk, A. A. Linear combinations of meromorphic functions of completely regular growth. (Ukrainian. Russian summary) 90j:30047
- Lahiri, Indrajit Generalised order of the derivative of a meromorphic function. 90a:30085
- Makhmutov, Sh. A. Meromorphic functions that have uniform growth of the characteristic. (Russian) (see 90m:30040)
- Mukhaev, A. Z. Meromorphic solutions of first-order differential equations. 90d:30085
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- Yang, Yu Zhen Two results on uniqueness theorems for entire functions and meromorphic functions. (Chinese. English summary) 90f:30038
- Yi, Hong Xun A note on the questions of multiple values and uniqueness of meromorphic functions. (Chinese. English summary) 90c:30027
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- Bergweiler, Walter Order and lower order of composite meromorphic functions. 90f:30036
- Bezivin, J.-P. Quotients de fonctions entières et quotients de Hadamard de séries formelles. (English summary) [Quotients of entire functions and Hadamard quotients of formal power series] 90k:30002
- Chevskii, V. M. The distribution of the zeros of some meromorphic functions. (Russian) 90j:30008
- Ganigi, M. D. *see* Uralagaddi, B. A., 90f:30029
- Goluzina, E. G. Sets of values of initial coefficients in a class of meromorphic functions with bounded boundary rotation. (Russian) 90a:30053
- Jongen, H. T. (with Jonker, P.; Twilt, F.) The continuous, desingularized Newton method for meromorphic functions. 90h:58232
- Jonker, P. *see* Jongen, H. T.; et al., 90h:58232
- Landau-Treisman, Laurellen (with Livingston, Albert E.) Weakly close-to-convex meromorphic functions. 90i:30018
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- Twilt, F. *see* Jongen, H. T.; et al., 90h:58232
- Uralagaddi, B. A. (with Ganigi, M. D.) Meromorphic multivalent functions with positive coefficients. 90f:30029
- Xiao, Xiu Zhi The Nevanlinna characteristic function of meromorphic solutions to algebraic differential equations. (Chinese. English summary) (Not in MR)
- Yamashita, Shinji Meromorphic Lipschitz functions. 90a:30093

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- Picard exceptional values of polynomials of meromorphic functions and their derivatives. (Chinese. English summary) 90a:30086
- Barasyan, G. A. Distributions of the roots of meromorphic functions. (Russian) 90d:30089
- Bergweiler, Walter On the Nevanlinna characteristic of a composite function. 90d:30090
- Cal, Jian Fixed points of entire functions. (Chinese. English summary) (Not in MR)
- Dai, Chong Ji (with Jin, Lu¹) Meromorphic function whose derivative has largest sum of deficiencies. 90c:30046
- *see also* Wang, Xiao Mao, 90c:30047; Ye, Zhuan, 90c:30051; Li, Bao Qin, 90h:30074 and Jin, Lu¹, 90c:30048
- Drasin, David The impact of Lars Ahlfors's work in value-distribution theory. 90k:30052
- Dzhirbashyan, A. M. Classes of functions of bounded type in a half-plane, a uniqueness theorem and a Phragmén-Lindelöf-type theorem. 90c:30028
- Erëmenko, A. É. A new proof of the Drasin theorem on meromorphic functions of finite order with a maximal sum of defects. I. (Russian) 90h:30073
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- Gong, Xiang Hong The homogeneous differential polynomials and angular distribution of meromorphic functions. (Chinese) 90k:30053
- (with Gu, Yong Xing) On Hayman directions. 90k:30054
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- Ishizaki, Katsuya On some generalizations of theorems of Toda and Weissenborn to differential polynomials. 90j:30048
- Jin, Lu¹ (with Dai, Chong Ji) A conjecture of F. Nevanlinna concerning deficient functions. I. (Chinese) 90c:30048
- *see also* Dai, Chong Ji, 90c:30046
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- Kim, Sang Moon Meromorphic functions of order zero that share four values. 90m:30038
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- Ma, Li Zhi Estimate of order for meromorphic functions. (Chinese) 90j:30049
- *see also* Zhuang, Qi Tai, 90d:30095
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- Pang, Xue Cheng A discussion of the singular directions of meromorphic functions. (Chinese. English summary) 90d:30093
- Parthasarathy, R. (with Subba Rao, S.) Extension of a result of Hayman and exceptional values of meromorphic functions. 90h:30075
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- Shao, Min Juan Properties of meromorphic functions with sums of deficiencies. (Chinese. English summary) 90h:30079
- Singh, Anand Prakash A note on exceptional value Picard for simple and double zeros. 90a:30088
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- A glimpse into Nevanlinna's theory of meromorphic functions. 90k:30057
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- (with Yu, Jia Rong) Sur la distribution des valeurs de certaines séries aléatoires de Dirichlet. II. (English summary) [On the distribution of values of certain random Dirichlet series. II] 90j:30051
- Deficient values of random functions. (Chinese. English summary) 90k:30058
- Toppila, Sakari Some upper bounds for the spherical derivative. 90b:30036
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- Tu, Zhen Han Uniqueness theorems for meromorphic functions. (Chinese. English summary) (Not in MR)
- Ueda, Hideharu On the zero-one-pole set of a meromorphic function. 90d:30094
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- Yang, Le Some results on value distribution theory of entire and meromorphic functions. 90m:30041
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- Deficient values and Borel directions of entire functions. 90c:30049
- Yang, Lian Zhong On the relative quasidefects of meromorphic functions. (Chinese. English summary) 90h:30080
- Comment: "Characteristic function of a meromorphic function and its derivative" [Ann. Polon. Math. 28 (1973), 123–133; MR 48 #4315] by S. K. Singh and V. N. Kulkarni. (Chinese) 90c:30050
- Ye, Zhuan (with Dai, Chong Ji) Nevanlinna inverse problem for deficient functions of finite order. (Chinese. English summary) 90c:30051
- Yi, Hong Xun On a theorem of Tumura and Clunie for a differential polynomial. 90b:30037
- Deficiencies of differential polynomials. (Chinese) 90m:30042
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- Zabotitskii, N. V. Some relations for Nevanlinna characteristics of an entire function of order $\rho < 1$. (Ukrainian. Russian summary) (Not in MR)
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- Zhang, Qing Cai On the singular directions of meromorphic functions. (Chinese) (Not in MR)
- Zhang, Xiao Kuan On value distribution properties of Bloch functions. (Chinese. English summary) 90j:30053
- Zhang, Zai Li The Valiron deficiencies of meromorphic functions of finite order. (Chinese. English summary) 90h:30081
- Zha, Jing Hao The inequality $\Sigma \delta^{1/3}(a(z), f) < +\infty$ for a meromorphic function f and its deficient function $a(z)$. (Chinese) (Not in MR)
- Zhuang, Qi Tai (with Ma, Li Zhi) Generalization of a theorem of Edrei. 90d:30095
- On the growth of a meromorphic function and of its differential polynomials. 90m:30043
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- Fujimoto, Hirotsugu On the value distribution of the Gauss map of minimal surfaces in \mathbb{R}^n . (Japanese) 90f:53098
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- Ha Huy Khodi (with My Vinh Quang) On p -adic Nevanlinna theory. 90e:11153
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- Lang, Serge The error term in Nevanlinna theory. II. 90k:32080
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- Pittsauer, Franz Ein elementarer Beweis eines Faktorisierungssatzes für ganze Funktionen. [An elementary proof of a factorization theorem for entire functions] 90m:30032
- Schwick, Wilhelm Normality criteria for families of meromorphic functions. 90k:30061
- Shamoyan, F. A. Description of closed ideals in Nevanlinna-Dzhrbasyan algebras, and characterization of weakly cyclic elements of the algebra N^+ . 90k:30093
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- Zabotitskii, N. V. Regularity of the growth of Nevanlinna characteristics of subharmonic functions. (Ukrainian. Russian summary) (Not in MR)
- 30D40 Cluster sets, prime ends, boundary behavior
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- Brinn, L. W. The rarity and dispersion of analytic functions with certain cluster sets. 90h:30083
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- Pa, De Qian The essential boundary points of analytic functions. 90i:30050
- On boundary properties of analytic functions. 90c:30052
- Saltmor, T. S. The A -integral and boundary values of analytic functions. 90a:30092
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- Sun, Dao Chun Necessary and sufficient conditions for Borel points. (Chinese. English summary) 90h:30085
- Yamashita, Shinji Meromorphic Lipschitz functions. 90a:30093
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- Alexander, H. Remark on a lemma of Pommerenke. 90g:28015
- Azarin, V. S. (with Giner, V. B.) A criterion for the existence of an entire function with a given limit set. (Russian. English summary) 90c:30044
- Bañuelos, Rodrigo (with Moore, Charles N.) Some results in analysis related to the law of the iterated logarithm. 90i:30002
- Borichev, A. A. Boundary uniqueness theorems for almost analytic functions, and asymmetric algebras of sequences. 90d:30129
- Carmichael, Richard D. (with Mitrović, Dragiša) ★ Distributions and analytic functions. 90c:46072
- Earle, Clifford J. Angular derivatives of the barycentric extension. 90g:30004
- Emel'yanov, A. P. Boundary values of an integral of Cauchy type for the conformal mapping of the unit disk onto a star-shaped domain. (Russian) [see 90m:00040]
- Emmery, O. M. Boundary singularities of spatial quasimeromorphic mappings along tangent paths. (Russian. Armenian summary) 90d:30059
- Falcón Rodríguez, Carlos A class of transformations with boundary correspondence. (Spanish. English summary) 90m:30025
- Giner, V. B. see Azarin, V. S., 90c:30044
- Gomonov, S. A. Cluster sets of multivalued mappings of topological spaces. 90g:54011
- Krzyż, Jan G. Harmonic analysis and boundary correspondence under quasiconformal mappings. 90k:30034
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- Malyutina, A. N. (with Paikov, V. I.) On the correspondence of boundaries for quasimetric mappings. (Russian) 90a:30063
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- Vuorinen, Matti On Picard's theorem for entire quasiregular mappings. 90a:30069
- 30D45 Normal functions, normal families
- Aulaskari, Rauno (with Lappan, Peter) Some integral conditions involving the spherical derivative. 90c:30054
- Lappan, Peter see Aulaskari, Rauno, 90c:30054
- Minda, David Yosida functions. 90d:30097
- Pang, Xue Cheng Normality conditions for differential polynomials. (Chinese) (Not in MR)
- see also Xue, Guo Fen, 90i:30051
- Schwick, Wilhelm Normality criteria for families of meromorphic functions. 90k:30061
- Simushev, A. A. Criteria for the normality of quasimeromorphic mappings and of families of quasimeromorphic mappings. (Russian) [see 90m:00040]
- Xue, Guo Fen (with Pang, Xue Cheng) A criterion for normality of a family of meromorphic functions. (Chinese. English summary) 90i:30051
- Zhang, Qing Cai On normality of families of meromorphic functions. (Chinese) (Not in MR)
- Items with secondary classifications in 30D45
- Earle, Clifford J. Angular derivatives of the barycentric extension. 90g:30004
- Yang, Le Some results on value distribution theory of entire and meromorphic functions. 90m:30041
- 30D50 Blaschke products, bounded characteristic, bounded functions, functions with positive real part
- Chen, Tongwen (with Francis, Bruce A.) Spectral and inner-outer factorizations of rational matrices. 90d:30098
- Francis, Bruce A. see Chen, Tongwen, 90d:30098

- Genin, Yves An introduction to the modern theory of positive functions and some of its today applications to signal processing, circuits and systems problems. 90m:30046
- Gevorgyan, I. M. *see* Shamsyan, F. A., 90a:30063
- Hayman, W. K. (with Pommerenke, Ch.) On meromorphic functions with growth conditions. 90c:30031
- Hul, Stefan Y. Blaschke products and nonvanishing bounded analytic functions separating sequences. 90c:30055
- Jevtić, Miroslav A note on Blaschke products with zeroes in a nontangential region. 90d:30099
- Khavinson, S. Ya. Theory of factorization of single-valued analytic functions on compact Riemann surfaces with a boundary. 90m:30047
- Korenblum, Boris A sharper form of a theorem of Kolmogorov. 90c:30032
- Martin, N. F. G. On ergodic properties of restrictions of inner functions. 90c:30056
- Mocanu, Petru T. (with Popovici, Mihai; Ripeanu, Dumitru) Best bound for the argument of certain analytic functions with positive real. II. 90c:30057
- Noell, Alan V. (with Wolff, Thomas H.) On peak sets for $Lip \alpha$ classes. 90a:30062
- Oganesyan, I. V. *see* Zakharyan, V. S., 90b:30086
- Ortel, Marvin (with Schneider, Walter J.) Analytic functions with rectifiable radial images. 90d:30100
- Pommerenke, Ch. *see* Hayman, W. K., 90c:30031
- Popovici, Mihai *see* Mocanu, Petru T.; et al., 90c:30057
- Ripeanu, Dumitru *see* Mocanu, Petru T.; et al., 90c:30057
- Schur, Rolf On the factorization of functions bounded and analytic in a half plane. 90d:30101
- Schneider, Walter J. *see* Ortel, Marvin, 90d:30100
- Shamsyan, F. A. (with Gevorgyan, I. M.) Characterization of the rate of decrease of Fourier coefficients of functions of bounded form and the sharpening of R. Salinas's theorem. (Russian. Armenian summary) 90a:30063
- Wolff, Thomas H. *see* Noell, Alan V., 90a:30062
- Zakharyan, V. S. An estimate for M. M. Dzhrbashyan's product. 90a:30094
- (with Oganesyan, I. V.) Taylor coefficients of M. M. Dzhrbashyan's products $B_n(z; z_k)$. 90b:30086

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- Alpay, Daniel (with Gohberg, I.) Unitary rational matrix functions. 90m:47006
- Delarte, Philippe (with Genin, Yves) A simple proof of Livingston's inequality for Carathéodory functions. 90c:30027
- Dyn, N. (with Micchelli, Charles A.; Rivlin, T. J.) Blaschke products and optimal recovery in H^∞ . 90c:30062
- Dzhrbashyan, A. M. Classes of functions of bounded type in a half-plane, a uniqueness theorem and a Phragmén-Lindelöf-type theorem. 90c:30028
- Theorems of Herglotz-Riesz type. 90b:30096
- Eoff, C. M. Fréchet envelopes of certain algebras of analytic functions. 90g:46075
- Fisher, S. D. Envelopes, widths, and Landau problems for analytic functions. 90b:30041
- Genin, Yves *see* Delarte, Philippe, 90c:30027
- Gohberg, I. (with Rubinstein, Sorin) Proper contractions and their unitary minimal completions. 90m:47007
- *see also* Alpay, Daniel, 90m:47006
- Hayashi, Mikihiko (with Nakai, Mitsuru) Point separation by bounded analytic functions of a covering Riemann surface. 90a:30141
- Katane'yan, V. E. A left Blaschke-Potapov product is not necessarily a right Blaschke-Potapov product. (Russian. English summary) 90d:47030
- Lichtin, B. Erratum: "Generalized Dirichlet series and b -functions" [Compositio Math. 65 (1988), no. 1, 81–120; MR 89d:32030]. 90c:32050
- Ma, Wan Cang On the Kirwan conjecture for typically real meromorphic functions. 90d:30045
- Micchelli, Charles A. *see* Dyn, N.; et al., 90c:30062
- Nakai, Mitsuru Valuations on meromorphic functions of bounded type. 90a:30133
- *see also* Hayashi, Mikihiko, 90a:30141
- Nowak, Maria On a certain class of meromorphic and univalent functions. (Russian and Polish summaries) 90c:30019
- Obradović, Milutin A property of the class of functions whose derivative has a positive real part. 90j:30037
- Pu, De Qian On boundary properties of analytic functions. 90c:30052
- Rivlin, T. J. Gauss quadrature for analytic functions. 90c:65031
- *see also* Dyn, N.; et al., 90c:30062
- Rubinstein, Sorin *see* Gohberg, I., 90m:47007

30D55 H^p -classes

- Aleman, Alexandru H^p spaces and integral operators. I. 90c:30033
- Beauzamy, Bernard A minimization problem connected with a generalized Jensen inequality. 90m:30048
- Bishop, Christopher J. An element of the disk-algebra that is stationary on a set of positive length. (Russian) 90a:30064
- Bonvalot, Laurence Continuité dans la formule de Jensen. [Continuity in Jensen's formula] 90b:30038
- Brown, Johnny E. (with Walker, Janice B.) A coefficient estimate for nonvanishing H^p functions. 90c:30058
- Burbea, J. Exponential inequality for holomorphic functions with finite Dirichlet integrals. 90a:30065
- Chang, Xin Yi On $H(p)$ spaces. (Chinese. English summary) 90i:30052
- Cohn, William S. A maximum principle for star invariant subspaces. 90c:30059
- Duren, P. L. Smirnov domains. (Russian summary) 90a:30066
- Dzhrbashyan, A. E. (with Karapetyan, A. O.) Integral inequalities between conjugate pluriharmonic functions in multidimensional domains. 90c:30034
- Gravade, M. I. On holomorphic functions whose maximum modulus grows arbitrarily slowly. (Russian. English summary) 90a:30067
- Heinig, H. P. (with Sinnamon, Gordon) Integral representations of functions in weighted Bergman spaces. 90g:30033
- Huang, Li Feng *see* Ren, Fu Yao, 90g:30034
- Karapetyan, A. O. *see* Dzhrbashyan, A. E., 90c:30034
- Kim, Hong Oh (with Kwon, E. G.) Weighted subspaces of Hardy spaces. 90a:30095
- Kwon, E. G. Fractional integration and the hyperbolic derivative. 90a:30096
- *see also* Kim, Hong Oh, 90a:30095
- Ren, Fu Yao (with Huang, Li Feng) Extension of a theorem of Carleson-Duren. 90g:30034
- Rigler, A. K. (with Trimble, Selden Y.; Varga, Richard S.) Sharp lower bounds for a generalized Jensen inequality. 90j:30055
- Shen, Xie Chang (with Xing, Fu Chong; Zhang, You Guang) Hardy-Littlewood type theorems in Bers spaces. (Chinese. English summary) 90i:30053
- Shirokov, N. A. ★ Analytic functions smooth up to the boundary. 90b:30087
- Sinnamon, Gordon *see* Heinig, H. P., 90g:30033
- Solyn, Charles P. Properties of power series coefficients of $H^2(\Pi_+)$ functions. 90a:30068
- Solyanik, A. A. Approximation of functions in $H^p(\mathbb{R})$. (Russian) (see 90d:00046)
- Suita, Nobuyuki On harmonic majorization. 90d:30102
- Trimble, Selden Y. *see* Rigler, A. K.; et al., 90j:30055
- Varga, Richard S. *see* Rigler, A. K.; et al., 90j:30055
- Walker, Janice B. *see* Brown, Johnny E., 90c:30058
- Wang, Jian The corona theorem with infinite data on a class of infinitely connected domains. (Chinese) 90c:30060
- Wulan, Hasi BMO meromorphic functions, normal functions and Carleson measure. (Chinese. English summary) 90b:30069
- Xing, Fu Chong *see* Shen, Xie Chang; et al., 90i:30053
- Yang, Shan Shuang Quasidisks and the BMO_p extension property. (Chinese summary) 90c:30061
- Yao, Bi Yun Another characterization of a meromorphic function with bounded mean oscillation. (Chinese) (Not in MR)
- Zhang, Jian Zhong Properties of $H(\Phi)$ -spaces and the Deeb-Marzuq conjecture. (Chinese. English summary) 90j:30056
- Zhang, You Guang *see* Shen, Xie Chang; et al., 90i:30053
- Zinsmeister, Michel Les domaines de Carleson. [Carleson domains] 90i:30054

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- Abu-Muhanna, Yusuf (with Lyzzaik, A. K.) The boundary behaviour of harmonic univalent maps. 90m:30044
- Aikawa, Hiroaki Harmonic functions having no tangential limits. 90b:31003
- Andersson, J.-E. Rational approximation to functions like x^n in integral norms. (Russian summary) 90a:30103
- Bakarchuk, S. B. Widths of some classes of analytic functions in the Hardy space H_2 . 90i:30057
- Chen, Yong Zhao (with Lau, Ka Sing) Some new classes of Hardy spaces. 90d:46059
- Cima, Joseph (with Stegenga, David A.) Hankel operators on H^p . 90g:47049
- Folaj, Ciprian (with Tannenbaum, Allen) On the Nehari problem for a certain class of L^∞ functions appearing in control theory. II. 90c:93025
- Gaimnazarov, G. Properties of functions in the spaces $H_p(-\infty, \infty)$, $0 < p < 1$. (Russian. Tajik summary) 90k:46049
- Grigoryan, Sourav Arshakovich A property of almost-periodic analytic functions. 90b:30009
- He, Yu Zan A class of special Hardy-Orlicz spaces and the space of BMOA functions. 90c:46054
- Hul, Stefan Y. Blaschke products and nonvanishing bounded analytic functions separating sequences. 90c:30055
- Karayannakis, Dimitri Spectral decompositions of one-parameter groups of isometries on Hardy spaces. 90c:47068
- Krotov, V. G. Estimates for maximal operators that are connected with boundary behavior, and their applications. (Russian) 90h:42030
- *see also* Storozhenko, E. A., 90c:42028
- Lau, Ka Sing *see* Chen, Yong Zhao, 90d:46059
- Liu, Kang Zhi (with Mita, Tsutomu) Conjugation and H^∞ control of discrete-time systems. 90m:93084
- Lyzzaik, A. K. *see* Abu-Muhanna, Yusuf, 90m:30044
- Mefnik, Yu. I. Direct theorems for the approximation of functions that are regular in convex polygons by exponential polynomials in an integral metric. 90c:30040
- Mita, Tsutomu *see* Liu, Kang Zhi, 90m:93084
- Mullaw, M. U. A space, conjugate to $E^p(\mathcal{D})$ ($1 \leq p < \infty$), and a simple generalization of the Wiener-Paley theorem. (Russian) (see 90d:41001)
- Nakazi, Takahiko Weighted norm inequalities and uniform algebras. 90d:46079
- Nawrocki, M. The nonisomorphism of the Smirnov classes of different balls and polydiscs. 90k:46052
- Pavlović, Miroslav Convolution in the harmonic Hardy class h^p with $0 < p < 1$. 90i:31005
- Pérez-González, F. H^p joint approximation. 90a:30109
- Ren, Fu Yao Some results on H^p spaces and A^p Bergman spaces. 90a:30002
- Rukshin, S. E. A linear interpolation operator in multiply connected domains. (Russian) 90k:41005
- Sedletskaia, A. M. Projecting from spaces E^p in a convex polygon onto subspaces of periodic functions. 90c:42027
- Shapiro, Joel H. (with Sundberg, Carl) Compact composition operators on L^1 . 90d:47035
- Shen, Xie Chang Some properties of interpolating basic functions in the unit disk. 90a:30102
- (with Xing, Fu Chong) The problem of best approximation by polynomials in the spaces H_q^p ($0 < p < 1$, $q > 1$). (Chinese. English summary) 90a:30111
- Shi, Xian Liang (with Torchinsky, Alberto) Local sharp maximal functions in spaces of homogeneous type. 90d:42019
- Siskakis, Aristomenis G. The Cesàro operator is bounded on H^1 . 90m:47050
- Spitkovskii, I. M. (with Tashbaev, A. M.) Factorization of piecewise constant matrix functions with 3 points of discontinuity in the classes $L_{p,p}$ and some of its applications. 90k:47057

- Stegenga, David A. *see* Cima, Joseph, 90j:47049
 Starozhenka, E. A. (with Krotov, V. G.) Best approximations and derivatives of analytic functions of Hardy classes. (Russian) 90c:42028
 Stroethoff, Karel Besov-type characterisations for the Bloch space. 90h:32012
 Sundberg, Carl *see* Shapiro, Joel H., 90d:47035
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 Xiao, Jie² Bergman, quasihyperbolic metrics and Bloch-kernel functions on the bounded domains. (Chinese summary) 90i:30016
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 Yao, Bi Yun Carleson measure and BMO interpolation. 90m:30050

30D60 Quasianalytic and other classes of functions

- Cai, Hai Tao *see* Li, Guo Ping, 90b:30039
 Khryptun, V. G. Expansion of functions of quasi-analytic classes in series in polynomials. 90j:30057
 Kosis, Paul ★ The logarithmic integral. I. 90a:30097
 Li, Guo Ping (with Cai, Hai Tao) ★ Zhunxiexi hanshu lun. (Chinese) [Theory of quasianalytic functions] 90b:30039
 Lindén, C. N. Integral logarithmic means for regular functions. 90g:30035
 Sindalovskii, G. Kh. Some sufficient conditions for the boundedness of analytic functions or for membership in the Smirnov class. (Russian) 90i:30055

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- Belingeri, Carlo Analyticity and quasi-analyticity derived from the behavior of the coefficients of Jacobi-Fourier series expansions. (Italian. English summary) 90f:42025
 Ider, Mostéfa On the superposition of functions in Carleman classes. 90k:26042
 — *see also* Siddiqi, Jamil A., 90h:26036
 Siddiqi, Jamil A. (with Ider, Mostéfa) Characterization of inverse-closed Beurling classes. 90h:26036
 Xiao, Yi Min Random power series and α -Bloch functions. (Chinese. English summary) 90a:30006
 Yulmukhametov, R. S. Duality in convex domains. (Russian) (*see* 90d:41001)

30D99 None of the above, but in this section

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- Arakelyan, N. U. *see* Avetisyan, Ruben Abelevich, 90j:30062
 Avetisyan, Ruben Abelevich (with Arakelyan, N. U.) Best approximations by meromorphic functions in angular domains. 90j:30062
 Choe, Boo Rim Composition property of holomorphic functions on the ball. 90g:32005
 Ramachandra, K. An application of Borel-Carathéodory theorem. 90j:30034
 Reeve, D. E. Some relations of the Mandelbrot and Julia sets: a computational exploration. (Not in MR)
 Vinitskii, B. V. Effective expansion of analytic functions in series in generalized systems of exponentials. 90j:30005
 Wallet, G. Comment É. Picard désingularisait une courbe algébrique plane complexe. [How É. Picard desingularized a complex algebraic plane curve] (*see* 90j:03116)

30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

- Agler, Jim Nevanlinna-Pick interpolation on Sobolev space. 90f:30041
 Andersson, Mats The corona theorem for matrices. 90g:30036
 Bokhari, M. A. Equiconvergence of some sequences of complex interpolating rational functions: quantitative estimates and sharpness. 90b:30040
 Bolotnikov, V. A. Descriptions of solutions of a degenerate moment problem on the axis and the halfaxis. (Russian) 90g:30037
 Dym, H. Hermitian block Toeplitz matrices, orthogonal polynomials, reproducing kernel Pontryagin spaces, interpolation and extension. (*see* 90k:41001)
 Fisher, S. D. Envelopes, widths, and Landau problems for analytic functions. 90b:30041
 Foias, Ciprian (with Tannenbaum, Allen) On the parametrization of the suboptimal solutions in generalized interpolation. 90k:30070
 Ivanov, Kamen G. (with Sharma, Ambikeshwar) Converse results on equiconvergence of interpolating polynomials. (Russian summary) 90d:30103
 Iwase, Hide-aki *see* Kimura, Hidenori, 90m:30049
 Kaz'min, Yu. A. A variant of the Abel-Goncharov interpolation problem. 90i:30056
 Kimura, Hidenori (with Iwase, Hide-aki) On directional interpolation in H^∞ . 90m:30049
 Korevaar, J. Interpolation by entire functions in C —another look. 90a:30098
 Lou, Yuan Ren On a theorem of Saff and Varga. 90d:30104
 Lyubarskii, Yu. I. Series of exponentials in Smirnov spaces and interpolation by entire functions of special classes. 90a:30099
 Marcellán, Francisco (with Pérez Grasa, I.) The moment problem on equipotential curves. 90f:30042
 Mullae, M. U. Interpolation by entire functions belonging to special classes and related approximation problems. (Russian) (*see* 90d:30046)
 Nakazi, Takahiko Notes on interpolation by bounded analytic functions. 90a:30100
 Njåstad, Olav Contractive Laurent fractions and nested discs. 90c:30035
 Orudzhev, G. A. Interpolation by rational functions. (Russian) 90a:30101
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 Piedra, René On simultaneous rational interpolants of type (α, β) . 90j:30058
 Power, Stephen An elementary approach to the matricial Nevanlinna-Pick interpolation criterion. 90b:30042

- Raczek, Krzysztof Rational interpolation on the unit circle. (Russian and Polish summaries) 90b:30043
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 Shen, Xie Chang Some properties of interpolating basic functions in the unit disk. 90a:30102
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 Takahashi, Sechiko Extension of the theorems of Carathéodory-Toeplitz-Schur and Pick. 90d:30105
 Tannenbaum, Allen *see* Foias, Ciprian, 90c:30070
 Thron, W. J. L -polynomials orthogonal on the unit circle. 90j:30059
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- Alpay, Daniel (with Gohberg, I.) Unitary rational matrix functions. 90m:47006
 Ball, Joseph A. Nevanlinna-Pick interpolation: generalizations and applications. 90g:47002
 — (with Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. 90m:47002
 — (with Cohen, Nir; Ran, A. C. M.) Inverse spectral problems for regular improper rational matrix functions. 90m:47005
 Chihara, T. S. Hamburger moment problems and orthogonal polynomials. 90b:42035
 Cohen, Nir *see* Ball, Joseph A., et al., 90m:47005
 Constantinescu, T. Operator Schur algorithm and associated functions. 90a:47018
 Dym, H. ★ J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. 90g:47003
 Dyn, N. (with Micchelli, Charles A.; Rivlin, T. J.) Blaschke products and optimal recovery in H^∞ . 90c:30062
 Feyh, German (with Jones, William B.; Mullis, Clifford T.) An extension of the Schur algorithm for frequency transformations. 90m:94014
 Fritzsche, Bernd (with Kirstein, Bernd) An extension problem for nonnegative Hermitian block Toeplitz matrices. IV. 90k:47054
 Georgiou, Tryphon T. Spectral factorization of matrix-valued functions using interpolation theory: state-space formulae. 90m:41006
 — Computational aspects of spectral factorization and the tangential Schur algorithm. 90b:65010
 Gohberg, I. (with Kaashoek, M. A.; Ran, A. C. M.) Interpolation problems for rational matrix functions with incomplete data and Wiener-Hopf factorization. 90m:47003
 — (with Kaashoek, M. A.) Regular rational matrix functions with prescribed pole and zero structure. 90m:47004
 — *see also* Ball, Joseph A.; et al., 90m:47002; Alpay, Daniel, 90m:47006 and Topics in interpolation theory of rational matrix-valued functions, 90m:47001
 Illán González, Jesús A generalized interpolatory formula for the integration of analytic functions. (Spanish. English summary) 90a:41003
 Jones, William B. (with Njåstad, Olav; Thron, W. J.) Moment theory, orthogonal polynomials, quadrature, and continued fractions associated with the unit circle. 90c:42027
 — *see also* Feyh, German; et al., 90m:94014
 Kaashoek, M. A. *see* Gohberg, I.; et al., 90m:47003 and 90m:47004
 Kheifets, A. Ya. The Parseval equality in an abstract problem of interpolation, and the union of open systems. II. (Russian) 90c:47009
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 Mamaturov, T. M. A sufficient condition for the solvability of an interpolation problem for a system of generalized analytic functions. (Russian) 90c:30049
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 Mullis, Clifford T. *see* Feyh, German; et al., 90m:94014
 Njåstad, Olav *see* Jones, William B.; et al., 90c:42027
 Ovchintsev, M. P. On the optimal recovery of functions of the class E_p in an annulus. 90k:41037
 Ran, A. C. M. *see* Gohberg, I.; et al., 90m:47003 and Ball, Joseph A.; et al., 90m:47005
 Raw, Michael D. On nonuniform sampling expansions using entire interpolating functions, and on the stability of Bessel-type sampling expansions. 90k:94009
 Rivlin, T. J. *see* Dyn, N.; et al., 90c:30062
 Rodman, Leiba *see* Ball, Joseph A.; et al., 90m:47002
 Rukshin, S. E. A linear interpolation operator in multiply connected domains. (Russian) 90k:41005
 Sharma, Ambikeshwar (with Szabados, J.) Convergence rates for some lacunary interpolations on the roots of unity. 90a:30110
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 Thron, W. J. *see* Jones, William B.; et al., 90c:42027
 Xia, Xiang Gen *see* Zhou, Xing Wei, 90m:30036
 Zhou, Xing Wei (with Xia, Xiang Gen) Computability of entire functions. 90m:30036
- Items listed otherwise than by author
- Topics in interpolation theory of rational matrix-valued functions ★ Topics in interpolation theory of rational matrix-valued functions. 90m:47001

30E10 Approximation in the complex domain

- Albikov, G. A. *see* Dzyadyk, V. K., 90k:30073
 Anderson, James Milne (with Fuchs, Wolfgang Heinrich Johannes) Remarks on "almost best" approximation in the complex plane. 90j:30060
 Andersson, J.-E. Rational approximation to functions like x^n in integral norms. (Russian summary) 90a:30103
 Andrievskii, V. V. Metric properties of the Riemann mapping function for a domain that is the complement of a continuum without exterior zero angles. (Russian. English and Armenian summaries) 90j:30061
 — (with Belyi, V. I.; Maimeskul, V. V.) Direct and inverse theorems for approximating functions for rational models in domains with a quasiconformal boundary. 90m:30051
 Arakelyan, N. U. *see* Avetisyan, Ruben Abelevich, 90j:30062

- Avetisyan, A. E. Completeness of some systems of entire functions on finite segments. (Russian. Armenian summary) 90d:30106
- Avetisyan, Ruben Abelerich (with Arakelyan, N. U.) Best approximations by meromorphic functions in angular domains. 90j:30062
- Bakarchuk, S. B. Widths of some classes of analytic functions in the Hardy space H_2 . 90i:30057
- Barbin, A. V. Best approximation of periodic functions, analytic in a strip, with bounded imaginary part. (Russian) 90e:30036
- Baykal-Gürsoy, Melike see Caines, P. E., 90e:30037a and 90e:30037b
- Belyi, V. I. (with Strelkovskaya, I. V.) Approximations of functions by complex analytic splines in domains with a quasiconformal boundary. 90f:30043
- see also Andrievskii, V. V.; et al., 90m:30051
- Berezkina, L. L. (with Rusak, V. N.) Behavior of rows of rational Chebyshev-Gonchar tables for individual analytic functions. (Russian) (see 90i:00006)
- Bikmukhametov, I. Kh. Estimation of a polynomial of generalized exponentials in an angle. (Russian) (see 90d:41001)
- Blatt, H.-P. (with Saff, E. B.; Totik, V.) The distribution of extreme points in best complex polynomial approximation. 90b:30089
- Bokhari, M. A. Converse results in the theory of equiconvergence of interpolating rational functions. 90k:30071
- Brown, Leon (with Schreiber, Bertram M.) Approximation and extension of random functions. 90i:30058
- de Bruin, M. G. Sudden symmetry in simultaneous approximation. 90i:30059
- Caines, P. E. (with Baykal-Gürsoy, Melike) On the L^∞ consistency of L^2 estimators. 90e:30037a
- (with Baykal-Gürsoy, Melike) Corrigendum to: "On the L^∞ consistency of L^2 estimators". 90e:30037b
- Cavaretta, A. S., Jr. (with Dikshit, H. P.; Sharma, Ambikeshwar) Convergence of certain polynomial interpolants to a function defined on the unit circle. 90d:30107
- Chikvinidze, L. N. Approximation of functions in domains with a quasiconformal boundary in weighted plane integral metrics. 90g:30038
- Clunie, J. (with Hasson, M.; Saff, E. B.) Approximation by polynomials that omit a power of z . 90b:30044
- Dikshit, H. P. see Cavaretta, A. S., Jr.; et al., 90d:30107
- Dolzhenko, E. P. Rational transformations of Hausdorff measures. (Russian) (see 90i:00006)
- Dudziak, James A weak-star rational approximation problem connected with subnormal operators. 90k:30072
- Dyn, N. (with Mitchell, Charles A.; Rivlin, T. J.) Blaschke products and optimal recovery in H^∞ . 90c:30062
- Dzhafarov, S. Z. A direct and an inverse theorem in the theory of approximation on quasiconformal curves. (Russian. English and Azerbaijani summaries) 90a:30104
- Dayadyk, V. K. (with Alibekov, G. A.) Summation of the Faber series by linear Riesz and Fejér methods in domains with a piecewise-smooth boundary. (Russian) 90k:30073
- Farkov, Yu. A. Widths of classes of analytic functions in a finite number of domains. (Russian) (see 90i:00005)
- Widths and ϵ -entropies of classes of analytic functions with bounded derivatives. (Russian) (see 90d:00046)
- Freund, M. The degree of rational approximation to meromorphic functions. (German and Russian summaries) 90a:30105
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- Akeroyd, John Point evaluations and polynomial approximation in the mean with respect to harmonic measure. 90a:46050
- Baker, George A., Jr. Integral approximants for functions of higher monodromic dimension. 90h:41020
- (with Oitmaa, J.; Velgakis, M. J.) Series analysis of multivalued functions. 90g:30001
- Baitus, Christopher (with Jones, William B.) Truncation error bounds for modified continued fractions with applications to special functions. 90h:65021
- Blatt, H.-P. (with Saff, E. B.; Simkani, M.) Jentsch-Szegő type theorems for the zeros of best approximants. 90a:30004
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- Dilcher, Karl (with Stolarsky, Kenneth B.) Zeros of certain rational approximations to the cosecant. 90j:30009

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- Aksen'ev, L. A. (with Elizarov, A. M.; Kinder, M. I.) Inverse boundary value problems for multiply connected domains on Riemann surfaces of genus zero. III. (Russian) 90c:30067
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- Brovka, N. V. A nonlinear conjugation problem for a holomorphic vector in a plane with two cuts. (Russian) 90c:30068
- Buzinovskii, B. P. (with Matskul, V. N.; Svetnoi, A. P.) On the solution of the generalized Riemann boundary value problem with discontinuous coefficients. (Russian) 90b:30100
- Chekmar'ev, T. V. A nonlocal problem for an analytic function in a doubly connected domain. (Russian) 90b:30101
- Dodokhova, G. V. A two-dimensional analogue of the Riemann boundary value problem with an infinite index. (Russian) 90a:30115
- Dzhirbashyan, M. M. A boundary value problem in the complex domain. (Russian. English and Armenian summaries) 90d:30116
- Eissa, R. P. Riemann boundary value problem and singular integral equations on a new class of functions. 90a:30116
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- González Diéguez, Belarmino (with Bory Reyes, Juan) The homogeneous Riemann boundary value problem on rectifiable open Jordan curves. (Spanish. English summary) 90c:30043
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- Gou, Jian Lin The Poincaré problems for doubly quasiperiodic analytic functions. (Chinese. English summary) 90a:30117
- Kang, Won Gon A solution of the Riemann-Hilbert boundary value problem. (Korean. English summary) 90i:30069
- Kapshivy, A. A. (with Yazkulyev, M.) Solution of boundary value problems of p -analytic functions with the characteristic $p = x/(x^2 + y^2)$ for a half-plane with cross-cuts. (Russian) 90a:30118
- Kata, B. A. (with Mironova, S. R.) The Riemann boundary value problem on a countable set of curves with coefficients that admit power singularities. (Russian) 90c:30069
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- Klyasov, S. N. On the solvability of a fractional-linear Riemann boundary value problem. (Russian) 90a:30119
- Kutateladze, G. A. Some boundary value problems of the theory of holomorphic functions for a circular annulus with slits. (Russian. English and Georgian summaries) 90a:30120
- Levinskii, S. V. Noether theory of the first boundary value problem for polyanalytic functions. (Russian) 90b:30082
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- Lisovets, N. I. A method of investigating differential boundary value problems for analytic functions. (Russian) 90b:30048
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- Meunargiya, O. V. Asymptotic properties of solutions of a boundary value problem of linear conjugation. (Russian) 90d:30117
- Mironova, S. R. see Kata, B. A. 90c:30069
- Monakhov, V. N. (with Semenko, E. V.) Boundary value problems with an infinite index on Riemann surfaces. (Russian) 90b:30102
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- The Riemann boundary value problem with an oscillating coefficient, and singular integral equations on a rectifiable curve. 90c:30071
- Ralević, N. V. Boundary value problems for (p, q) -analytic functions. 90c:30044
- Rasulov, K. M. Solution of boundary value problems of Riemann type for polyanalytic functions in the case of multiply connected domains. 90b:30103
- Salekhova, I. G. A mixed problem for a plane with a countable set of slits distributed along a line. (Russian) 90d:30118
- Semenko, E. V. see Monakhov, V. N. 90b:30102
- Sheshko, M. A. An approximate solution of a problem of linear conjugation in the theory of analytic functions. (Russian. English summary) 90i:30070
- Shirokova, E. A. see Amirkhanova, S. G. 90b:30047
- Slepian, A. L. Solvability of a system of nonlinear equations arising in the combined Hilbert-Riemann problem. (Russian. English and Georgian summaries) 90a:30122
- So, Gi Yong On a differential boundary value problem with shift for a generalized analytic function. (Korean. English summary) 90b:30104
- Sorokin, A. S. The Schwarz problem for functions with poles in circular multiply connected domains. 90b:30049
- The homogeneous Keldysh-Sedov problem for multiply connected circular domains in the Muskhelishvili class H_0 . 90c:30072
- Spitkovskii, I. M. (with Tashbaev, A. M.) On the efficient factorization of matrix functions. (Russian) 90i:30071
- Svetnoi, A. P. see Buzinovskii, B. P.; et al. 90b:30100
- Tashbaev, A. M. see Spitkovskii, I. M. 90i:30071
- Tlyustev, S. R. Nonunivalent mappings with a free boundary. (Russian) 90i:30072
- Tungatarov, A. The Riemann-Hilbert problem for the generalized Cauchy-Riemann system with a finite number of singular points. (Russian. Kazakh summary) 90b:30050
- Verkhovod, D. B. A generalized inverse operator of the problem of conjugation of analytic functions on compact Riemann surfaces and its application. (Russian) 90i:30073
- A conjugation boundary value problem for solutions of a quasilinear Beltrami equation on compact Riemann surfaces. (Russian) 90b:30083
- Vinichenko, A. A. (with Nasyrov, S. R.) Convergence of an approximate analogue method for solving the Schwarz boundary value problem. (Russian) 90a:30123
- Vlasov, V. I. ★ Красные задачи в областях с криволинейной границей. (Russian) [Boundary value problems in domains with a curvilinear boundary] 90j:30069
- Wegert, E. Boundary value problems and extremal problems for holomorphic functions. 90b:30105
- Yakhin, R. A. On the problem of linear conjugation of holomorphic functions. (Russian) 90b:30084
- Yazkulyev, M. see Kapshivy, A. A. 90a:30118
- Zverovich, É. I. A problem of linear conjugation in Wiener rings on the union of two intersecting circles. (Russian) 90a:30124
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- Akhmedov, Sh. A. Some spaces of test functions and of infinitely differentiable functions. (Russian. Tajiki summary) 90d:46057
- Aksen'ev, L. A. see Arkhadiev, F. G.; et al. 90d:76045
- Alekhnova, A. G. On the solvability of a characteristic singular integral equation with an infinite index. 90f:45003
- Amirkhanova, S. G. (with Zhurbenko, L. N.) A boundary value problem with a parameter x for an elliptic first-order system. (Russian) 90a:35080
- Asada, Akira Monodromy of a differential equation having a quadratic nonlinear term. 90b:58007
- Arkhadiev, F. G. (with Aksen'ev, L. A.; Elizarov, A. M.) Conditions for the univalence of solutions of applied inverse boundary value problems. I. (Russian) 90d:76045
- Bantsuri, R. D. (with Isakhanov, R. S.) A semi-inverse problem of elasticity theory for a finite doubly connected domain. (Russian) 90d:73011
- Busurlov, A. A. Construction of the Green functions for multidimensional boundary value problems. (Russian) 90b:35081
- Dadiomov, V. M. Singular cases of a differential conjugation problem for generalized analytic functions. (Russian. Kazakh summary) 90i:30076
- Elizarov, A. M. see Arkhadiev, F. G.; et al. 90d:76045
- Fichera, Gaetano Plane stresses and related analytic problems. 90j:73020
- Hoàng Đình Dung On the inversion formulas for the integral representation of e^{ix} -analytic functions and their application. 90c:30079
- Hu, Chuan Gan The disturbance of vector-valued doubly-periodic Riemann boundary-valued problems. 90a:35102
- Huang, Si Xun Expressions for generalized solutions to higher-order hypercomplex systems of equations and generalized Riemann-Hilbert problems. (Chinese) 90g:30045
- Isakhanov, R. S. see Bantsuri, R. D. 90d:73011
- Jenkins, J. A. On quasiconformal mappings with given boundary values. 90b:30024
- Lisovets, N. I. Noethericity and the index of a singular integral operator of a special type. (Russian) 90c:47048
- Litvinchuk, G. S. (with Spitkovskii, I. M.) ★ Factorization of measurable matrix functions. 90g:47030
- Lü, De A note on the generalized Carleman boundary value problem for the system with constant coefficients of the class E_2 . 90m:30065
- Lu, Jian Ke Application of complex functions to crack problems of half-plane with different media. 90c:73103

- On crack problems in an infinite plane consisting of three different media. 90g:73105
(Laderer, B.) see Litvinchuk, G. S., 90g:47030
Nguyễn Văn Mậu Solvability in closed form of a class of complete singular integral equations. 90b:45013
Pastashvili, V. A. On the Noethericity of linear singular integral equations in weighted Lebesgue spaces. (Russian. English and German summaries) 90j:45010
Pillai, V. S. Uniform invertibility of regular approximations of one-dimensional singular integral operators with piecewise continuous coefficients. 90m:45023
Plaksa, S. A. The Riemann boundary value problems with an oscillating free term, and singular integral equations on a rectifiable curve. (Russian) 90e:45006
Rasulov, M. L. ★ Применение вычтеного метода к решению задач дифференциальных уравнений. (Russian) [Application of the residue method to solving problems of differential equations] 90i:35056
Rodin, Yu. L. ★ The Riemann boundary problem on Riemann surfaces. 90f:30054
dos Santos, A. F. (with Teixeira, F. S.) The Sommerfeld problem revisited: solution spaces and the edge conditions. 90m:78013
Schiffner, Karl-Heinz On holomorphic functions on Riemann surfaces and the Riemann-Hilbert problem. 90k:46076
(Silbermann, Bernd) see Litvinchuk, G. S., 90g:47030
Skorokhodov, S. L. see Vlasov, V. I., 90f:31004
Spitkovskii, I. M. Factorization of Hermitian matrix functions and classification of shifts in a space with an indefinite metric. (Russian) 90k:47036
— see also Litvinchuk, G. S., 90g:47030
Teixeira, F. S. see dos Santos, A. F., 90m:78013
Tovmasyan, N. E. Well-posed boundary value problems for the Carleman-Vekua equation in a half-plane. (Russian) 90e:35059
Tungatarov, A. Some integral operators in the theory of generalized analytic functions. (Russian) 90e:30050
Vlasov, V. I. (with Volkov, D. B.) ★ Задача Дирихле в круге с угловым вырезом. (Russian) [The Dirichlet problem in a disk with a corner cut] 90f:31003
— (with Skorokhodov, S. L.) ★ Аналитическое решение задачи Дирихле для уравнения Пуассона в одном классе полигональных областей. (Russian) [Analytic solution of the Dirichlet problem for the Poisson equation in a class of polygonal domains] 90f:31004
Volkov, D. B. see Vlasov, V. I., 90f:31003
Wen, Gao Chun Some boundary value problems for nonlinear degenerate elliptic complex equations. 90j:35093
Zeng, Yue Sheng A class of hypercomplex singular integral equations on rectifiable closed curves. (Chinese. English summary) 90b:45015
— On Riemann boundary value problem for hyperanalytic function in rectifiable open curve. (Chinese summary) 90b:30112
Zhuravov, E. Solution of a system of singular integral equations with a multidimensional singular integral operator. (Russian) 90e:47053
Zhurbenko, L. N. see Amirhanova, S. G., 90e:35080

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- Nishimoto, Katsuyuki (with Srivastava, Hari M.) Certain classes of infinite series summable by means of fractional calculus. 90d:30119
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30Fxx Riemann surfaces

30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

- Baldassarri, F. (with Dwork, B.; Tovena, F.) On singular projective structures on Riemann surfaces. 90m:30058
Bronza, S. D. (with Tairova, V. G.) The existence of algebraic functions with given branching that satisfy an additional condition. (Russian) 90j:30070
Bujalance, E. (with Etayo Gordejuela, José Javier) A characterization of q -hyperelliptic compact planar Klein surfaces. 90m:30059
— (with Bujalance, J. A.; Gromadzki, Grzegorz; Martínez, Ernesto) The groups of automorphisms of nonorientable hyperelliptic Klein surfaces without boundary. 90m:30060
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Gromadzki, Grzegorz Maximal groups of automorphisms of compact Riemann surfaces in various classes of finite groups. (Spanish summary) 90d:30120
— Abelian groups of automorphisms of compact nonorientable Klein surfaces without boundary. 90m:30061
— see also Bujalance, E.; et al., 90m:30060
Hempel, Joachim A. (with Smith, Simon J.) Uniformisation of the twice-punctured disc—problems of confluence. 90d:30121
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Koshevoi, G. A. Curves of infinite genus that can be uniformized in the sense of Schottky. 90m:30062
Kuribayashi, Akikazu (with Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces. 90c:30073
Maitani, Fumio Covering properties of extremal vertical slit mappings. 90a:30125
Martínez, Ernesto see Bujalance, E.; et al., 90m:30060
Mastersen, John T. Branched affine and projective structures on compact Riemann surfaces. 90b:30051
Mednykh, A. D. Hyperbolic Riemann surfaces with the trivial group of automorphisms. 90f:30053
Nasyrov, S. R. A topological space, connected with convergence to a kernel, of Riemann surfaces over a sphere. (Russian. English summary) 90a:30126
Reנגל, H. On fixed points of conformal automorphisms of Riemann surfaces. 90a:30127

- Reysat, É. ★ Quelques aspects des surfaces de Riemann. (French) [Some aspects of Riemann surfaces] 90k:30085
Rodin, Yu. L. ★ The Riemann boundary problem on Riemann surfaces. 90f:30054
Smith, Simon J. see Hempel, Joachim A., 90d:30121
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Tovena, F. see Baldassarri, F.; et al., 90m:30058

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- Arbarello, Enrico Riemann surfaces, theta functions and representations. (Italian) 90c:14025
Bonahon, F. The geometry of Teichmüller space via geodesic currents. 90a:32025
Brannan, D. A. (with Lyzzaik, A. K.) Some covering properties of locally univalent functions. 90c:30005
Burger, Marc see Buser, Peter; et al., 90e:58156
Buser, Peter (with Burger, Marc; Dodziuk, Jozef) Riemann surfaces of large genus and large λ_1 . 90e:58156
Dodziuk, Jozef see Buser, Peter; et al., 90e:58156
Dzhuravov, O. A method for the effective construction of the field of algebraic functions that corresponds to an n -sheeted covering of a sphere. (Russian. English summary) 90a:12015
Gallo, Daniel M. Prescribed holonomy for projective structures on compact surfaces. 90e:57014
Griffiths, Phillip A. ★ Introduction to algebraic curves. 90i:14028
Gromadzki, Grzegorz (with MacLachlan, C.) Supersoluble groups of automorphisms of compact Riemann surfaces. 90k:20080
Haas, Andrew Howard Diophantine approximation on hyperbolic orbifolds. 90e:11031
Kato, Mitsuyoshi On some abelian complex reflection groups. 90k:32093
Kimura, Hideyuki see Kuribayashi, Akikazu, 90k:14024
Kuribayashi, Akikazu (with Kimura, Hideyuki) On Rauch's conjecture. (Japanese. English summary) 90k:14024
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Randol, Burton A remark on λ_{2g-2} . 90g:58139
Seppälä, Mika ★ Topics on Teichmüller spaces. 90f:32026
— (with Sorvali, Tuomas) Affine coordinates for Teichmüller spaces. 90e:32024
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Teofilatto, Paolo Discrete supergroups and super Riemann surfaces. 90a:58011
Wang, Shi Cheng Essential invariant circles of surface automorphisms of finite order. 90e:57026
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Xiao, Liang On complete minimal surfaces with parallel and flat ends. 90d:53015
Yang, Kichoon ★ Compact Riemann surfaces and algebraic curves. 90e:14023

30F15 Harmonic functions on Riemann surfaces

- Epstein, C. L. Positive harmonic functions on abelian covers. 90c:30074

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- Khavinson, S. Ya. Theory of factorization of single-valued analytic functions on compact Riemann surfaces with a boundary. 90m:30047

30F20 Classification theory of Riemann surfaces

- Bujalance, E. (with Etayo Gordejuela, José Javier; Gamboa, J. M.; Martínez, Gerriet) Minimal genus of Klein surfaces admitting an automorphism of a given order. 90b:30052
Bujalance, J. A. Hyperelliptic compact nonorientable Klein surfaces without boundary. 90a:30128
Etayo Gordejuela, José Javier see Bujalance, E.; et al., 90b:30052
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Martens, Gerriet see Bujalance, E.; et al., 90b:30052
Pöyhönen, Juha On Fenchel-Nielsen type coordinates for Teichmüller spaces of Klein surfaces. 90c:30075

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- Grigorchuk, R. I. Topological and metric types of surfaces that regularly cover a closed surface. 90j:57002
Rochberg, Richard Deformation theory for algebras of analytic functions. 90b:46111
Vainio, Juhani V. On the type of sewing functions with a singularity. 90i:30035
Yamashita, Shinji Les fonctions méromorphes s'exprimant comme quotients de fonctions holomorphes, bornées et Dirichlet-finites. (English summary) [Meromorphic functions expressed as quotients of holomorphic, bounded and Dirichlet-finite functions] 90d:30086
Zomorrodian, Reza Bounds for the order of supersoluble automorphism groups of Riemann surfaces. 90e:20045

30F25 Ideal boundary theory

- Qiu, Sha Xi Properties of the ideal boundary of a maximal Riemann surface. (Chinese. English summary) 90f:30055
Zhang, Xun On the harmonic dimension of an open Riemann surface of class O_q . (Chinese. English summary) 90a:30129

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- Järvi, Pentti Riemann surfaces with the AD-maximum principle. 90e:30045
Nakai, Mitsuru Comparison of Martin boundaries for Schrödinger operators. 90b:31011
Skora, Richard K. Splittings of surfaces. 90k:57016
Tada, Toshimasa Martin compactifications of the punctured disk with close to rotation free densities. 90c:31019

30F30 Differentials on Riemann surfaces

- Caillas Ripoll, Pascual A remark on meromorphic differentials in open Riemann surfaces. 90b:30106
- On ramification divisors of functions in a punctured compact Riemann surface. 90b:30107
- Jablón, Eric Robert An analogue of the Rauch variational formula for Prym differentials. 90f:30056
- Klimek, Sławomir (with Lesniewski, Andrzej) Global Laurent expansions on Riemann surfaces. 90j:30071
- Lesniewski, Andrzej see Klimek, Sławomir, 90j:30071
- Masur, Howard Lower bounds for the number of saddle connections and closed trajectories of a quadratic differential. 90e:30046
- Royden, H. L. The variation of harmonic differentials and their periods. 90d:30122
- Sengupta, Jharna A uniqueness theorem of reflectable deformations of a Fuchsian group. 90c:30076
- Shiba, Masakazu (with Shibata, Keiichi) Hydrodynamic continuations of an open Riemann surface of finite genus. 90c:30047
- Shibata, Keiichi see Shiba, Masakazu, 90c:30047
- Taniguchi, Masahiko Abelian differentials with normal behavior and complex pinching deformation. 90d:30123
- Tchowitz, Kajetan The curve on which $\operatorname{Re} \int \sqrt{R(z)} dz = \text{const.}$ (Russian and Polish summaries) 90d:30124
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- Baldassarri, F. (with Dwork, B.; Tivena, F.) On singular projective structures on Riemann surfaces. 90m:30058
- Bonora, L. (with Matone, Marco; Rinaldi, M.) Bases of meromorphic differentials on genus g Riemann surfaces and applications. 90k:14045
- Dwork, B. see Baldassarri, F.; et al., 90m:30058
- Gustafsson, Björn Singular and special points on quadrature domains from an algebraic geometric point of view. 90i:30066
- Hara, Heihachiro see Mizumoto, Hisao, 90c:65042
- Matone, Marco see Bonora, L.; et al., 90k:14045
- Mizumoto, Hisao On some remarks about analytic differentials of higher order of a compact Riemann surface. 90i:14036
- Mizumoto, Hisao (with Hara, Heihachiro) Finite element approximations of harmonic differentials on a Riemann surface. 90c:65042
- Pekonen, Osmo A short proof of a theorem of Ahlfors. 90b:32046
- Rinaldi, M. see Bonora, L.; et al., 90k:14045
- Rudin, Yu. L. ★ The Riemann boundary problem on Riemann surfaces. 90f:30054
- Tchowitz, Kajetan Functions which satisfy the differential equation of the Schaeffer type. (Russian and Polish summaries) 90d:30052
- Tivena, F. see Baldassarri, F.; et al., 90m:30058

30F35 Fuchsian groups and automorphic functions

[see also 11Fxx, 20H10, 32Gxx, 32Nxx]

- Bujalance, E. (with Bujalance, J. A.; Martínez, Ernesto) On the automorphism group of hyperelliptic Klein surfaces. 90a:30130
- (with Costa, Antonio F.) Topological characterization of involutions in Klein surfaces. (Spanish. English summary) 90d:30125
- Bujalance, J. A. see Bujalance, E.; et al., 90a:30130
- Costa, Antonio F. see Bujalance, E., 90d:30125
- Erkama, Timo Rational Riemann maps. 90i:30074
- Hejhal, Dennis A. Regular b -groups and repeated Dehn twists. 90f:30057
- Kravtsev, S. V. Some functional and geometric properties of Fuchsian groups. (Russian) (see 90m:00040)
- Martínez, Ernesto see Bujalance, E.; et al., 90a:30130
- Maskit, Bernard Parameters for Fuchsian groups. I. Signature $(0, 4)$. 90g:30042
- Matsumoto, Makoto The kernel of the Poincaré series operator of weight -2 . 90d:30126
- McMullen, Curt Amenability, Poincaré series and quasiconformal maps. 90c:30048
- Metzger, Thomas A. On the exponent of convergence for infinitely generated Fuchsian groups. 90c:30077
- Nakanishi, Toshihiro (with Yamamoto, Hiro-o) On the outradius of the Teichmüller space. 90g:30043
- Ohtake, Hiromi On the deformation of Fuchsian groups by quasiconformal mappings with partially vanishing Beltrami coefficients. 90m:30063
- Yamamoto, Hiro-o see Nakanishi, Toshihiro, 90g:30043
- Items with secondary classifications in 30F35
- Bujalance, E. (with Gromadzki, Grzegorz) On nilpotent groups of automorphisms of Klein surfaces. 90c:20044
- Derevin, D. A. (with Mednykh, A. D.) Geometric properties of discrete groups acting with fixed points in a Lobachevskii space. 90a:30131
- Gehring, F. W. (with Martin, G. J.) The matrix and chordal norms of Möbius transformations. 90d:30060
- Goncharov, Yu. P. (with Spokoiny, B. L.) Determinants of Laplacians in real line bundles connected with quantum geometry of strings. 90b:58267
- Gromadzki, Grzegorz see Bujalance, E., 90c:20044
- Haas, Andrew Howard Diophantine approximation on hyperbolic orbifolds. 90c:11031
- Hinkkanen, A. The structure of certain quasisymmetric groups. 90d:30063
- Martin, G. J. see Gehring, F. W., 90d:30060
- Mednykh, A. D. see Derevin, D. A., 90a:30131
- Natanson, S. M. Finite groups of homeomorphisms of surfaces, and real forms of complex algebraic curves. (Russian) 90b:14038
- Okumura, Yoshihide On the global real analytic coordinates for Teichmüller spaces. 90i:32071
- Ribb, W. Automorphic functions, Poincaré series, and conformal fields on Riemann surfaces. 90j:11039

- Sengupta, Jharna A uniqueness theorem of reflectable deformations of a Fuchsian group. 90c:30076
- Spokoiny, B. L. see Goncharov, Yu. P., 90b:58267
- Tukia, Pekka Homeomorphic conjugates of Fuchsian groups: an outline. 90b:22011

30F40 Kleinian groups [see also 20H10]

- Derevin, D. A. (with Mednykh, A. D.) Geometric properties of discrete groups acting with fixed points in a Lobachevskii space. 90a:30131
- Doyle, Peter G. On the bass note of a Schottky group. 90b:30053
- Gehring, F. W. (with Martin, G. J.) Iteration theory and inequalities for Kleinian groups. 90c:30066
- Gusevskii, N. A. Geometric decomposition of Kleinian groups in space. 90c:30078
- Martin, G. J. see Gehring, F. W., 90c:30066
- Maskit, Bernard ★ Kleinian groups. 90a:30132
- (with Swarup, Gadde) Two parabolic generator Kleinian groups. 90i:30075
- Mednykh, A. D. see Derevin, D. A., 90a:30131
- Ohshika, Ken'ichi On limits of quasi-conformal deformations of Kleinian groups. 90f:30058
- Sasaki, Takehiko A graph for Kleinian groups. 90g:30044
- Sekigawa, Hisao A theorem on the limit sets of quasiconformal deformations of infinitely generated Fuchsian groups of the first kind. 90b:30108
- Swarup, Gadde see Maskit, Bernard, 90i:30075
- Tukia, Pekka A remark on a paper by Floyd. 90b:30054

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- Bers, Lipman Finitely generated Kleinian groups. An introduction. 90i:20050
- Jørgensen, Troels (with Marden, Albert) Kleinian groups with quotients of finite volume. 90c:22032
- Kapovich, M. E. Conformal structures with Fuchsian holonomy. 90c:57007
- Klimenko, E. Ya. Discrete groups in the three-dimensional Lobachevskii space that are generated by two rotations. 90c:22017
- Kra, Irwin Nonvariational global coordinates for Teichmüller spaces. 90b:32044
- Moduli for Riemann surfaces. 90g:32026
- Marden, Albert see Jørgensen, Troels, 90c:22032
- Miller, Andy A group theoretic characterization of the 2-dimensional spherical groups. 90j:20052
- Morgan, John W. Trees and hyperbolic geometry. 90f:57044
- Pollicott, Mark Kleinian groups, Laplacian on forms and currents at infinity. 90m:58217
- Potyagailo, L. D. Three-dimensional Kleinian groups that are isomorphic to the fundamental group of the Haken manifold. 90b:57020
- Soma, Teruhiko Geometric convergence for laminated surfaces. 90f:57020
- Susskind, Perry Kleinian groups with intersecting limit sets. 90f:57045

30F99 None of the above, but in this section

- Andreian Cazacu, Călină Morphisms of Klein surfaces and Stoilov's topological theory of analytic functions. 90f:30059
- Bärz, Ilie The dianalytic morphisms of the Klein bottles. 90b:30055
- Cazacu, Călină Andreian Complete Klein coverings of Klein surfaces of characteristic 0. I. 90b:30056
- Nakai, Mitsuru Valuations on meromorphic functions of bounded type. 90a:30133
- Reingli, H. Remarks on the Picard theorem. 90a:30134
- Items with secondary classifications in 30F99
- Bujalance, J. A. Orders of the automorphisms of bordered Klein surfaces of topological genus 2. (Spanish. English summary) 90j:20098
- Colbois, B. (with Colin de Verdière, Yves) Sur la multiplicité de la première valeur propre d'une surface de Riemann à courbure constante. [Multiplicity of the first eigenvalue of a Riemann surface with constant curvature] 90c:58182
- Colin de Verdière, Yves see Colbois, B., 90c:58182
- Freedman, D. Z. (with Latorre, J. I.; Pilch, K.) Global aspects of the harmonic gauge in bosonic string theory. 90a:81123
- Gardiner, Frederick P. On completing triangles in infinite-dimensional Teichmüller spaces. 90j:30036
- Heins, Maurice A theorem of Wolff-Denjoy type. 90d:30077
- Kirzuka, Takashi (with Matsumoto, Mitsuo) On meromorphic mappings of Poincaré type of two complex variables. 90j:32031
- Latorre, J. I. see Freedman, D. Z.; et al., 90a:81123
- Matsumoto, Mitsuo see Kirzuka, Takashi, 90j:32031
- (McArthur, I. N.) see Schlichenmaler, Martin, 90c:32033
- Mukhi, Sunil An introduction to Riemann surfaces for physicists. (see 90f:81011)
- Niino, Kiyoshi Some results on analytic mappings between two ultrahyperbolic surfaces. 90d:30092
- Onipov, E. P. The central extension of Kac-Moody-Mal'cev algebras. 90j:17046
- Pilch, K. see Freedman, D. Z.; et al., 90a:81123
- Schlichenmaler, Martin ★ An introduction to Riemann surfaces, algebraic curves and moduli spaces. 90c:32033
- Suits, Nobuyuki On harmonic majorization. 90d:30102
- Yakubovich, D. V. Multiplication operators on special Riemann surfaces as models of rational Toeplitz operators. 90c:47051

30Gxx Generalized function theory

30G05 Non-Archimedean function theory [see also 12J25]

Items with secondary classifications in 30G05

- André, Yves Spécialisation dans les disques singuliers réguliers. [Specialization in regular singular discs] 90f:12008
- Escassut, Alain Factorisation de Hensel pour les séries à coefficients analytiques. [Hensel factorization for series with analytic coefficients] 90i:32024
- Derivative of analytic elements on infraconnected clopen sets. 90d:32028
- Ha Huy Khôdi (with My Vinh Quang) On p -adic Nevanlinna theory. 90e:11153
- My Vinh Quang see Ha Huy Khôdi, 90e:11153

30G10 Nonstandard function theory [see also 03H05]

- Zhang, Rong Xin Some problems in nonstandard complex analysis. (Chinese. English summary) 90m:30064

Items with secondary classifications in 30G10

- Impens, Chris Propagation of microcontinuity for nonstandard polynomials. 90i:26035

30G15 Topological function theory

Items with secondary classifications in 30G15

- Andreasen, Cabiria Morphisms of Klein surfaces and Stoilow's topological theory of analytic functions. 90f:30059
- Čadež, Martin Oscillatory properties of second order linear differential equations in the complex domain. 90d:34015
- Cristea, Mihai Some conditions for the local or global injectivity of a mapping between two n -manifolds. 90e:57045
- Sokolova, T. V. Structure of mappings with bounded distortion that are close to conformal. 90a:30067

30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p -analytic, etc.)

- Aouf, M. K. On certain subclass of analytic p -valent functions of order α . (Italian summary) 90k:30087
- Carl, S. A maximum principle for a class of generalized analytic functions. 90d:30127
- Dadiomov, V. M. Singular cases of a differential conjugation problem for generalized analytic functions. (Russian. Kazakh summary) 90i:30076
- Hoàng Đình Dũng On the inversion formulas for the integral representation of e^{ix} -analytic functions and their application. 90c:30079
- Huang, Si Xun Expressions for generalized solutions to higher-order hypercomplex systems of equations and generalized Riemann-Hilbert problems. (Chinese) 90g:30045
- Ioskimidze, N. I. A note on the closed-form determination of zeros and poles of generalized analytic functions. 90k:30088
- Lê Hùng Sơn The problem of continuation in generalized complex analysis and its applications. (Vietnamese) (Not in MR)
- Lă, De A note on the generalized Carleman boundary value problem for the system with constant coefficients of the class E_p . 90m:30065
- Mamatmurdiev, T. M. A sufficient condition for the solvability of an interpolation problem for a system of generalized analytic functions. (Russian) 90c:30049
- Mikhailov, L. G. A nonlinear generalized Cauchy-Riemann system with two independent complex variables. 90d:30128
- (Oleinik, O. A.) see Vekua, I. N., 90a:30135
- Ospanov, K. N. (with Otelbaev, M.) A generalized Cauchy-Riemann system with non-smooth coefficients. (Russian) 90i:30077
- Otelbaev, M. see Ospanov, K. N., 90i:30077
- (Shabat, B. V.) see Vekua, I. N., 90a:30135
- Tokibetov, Zh. A. The Liouville theorem for a generalized Cauchy-Riemann system. (Russian) 90b:30057
- Tungatarov, A. A class of Carleman-Vekua equations with a singular point. (Russian. Kazakh summary) 90c:30080
- Some integral operators in the theory of generalized analytic functions. (Russian) 90c:30050
- Continuous solutions of a Carleman-Vekua equation with a singular point. (Russian. Kazakh summary) 90k:30089
- Vekua, I. N. ★ Обобщенные аналитические функции. (Russian) [Generalized analytic functions] 90a:30135

Items with secondary classifications in 30G20

- Adirskaliyeva, Zh. N. (with Bliev, N. K.) On the solvability of the Carleman-Vekua equation in unbounded domains. (Russian. Kazakh summary) 90d:35084
- Akhalya, G. Ya. (with Mandzhavidze, G. F.) Boundary value problems in the theory of generalized analytic vectors for domains with corner points. (Russian) 90c:30042
- Amirkhanova, S. G. (with Shirokova, E. A.) Inverse boundary value problems for functions that are inverse to polyanalytic functions. (Russian) 90b:30047
- Bikchantaev, I. A. see Fomenko, V. T., 90d:30064
- Bliev, N. K. see Adirskaliyeva, Zh. N., 90d:35084
- Fomenko, V. T. (with Bikchantaev, I. A.) Application of generalized analytic functions on Riemann surfaces to the investigation of G -deformations of two-dimensional surfaces in E^4 . 90a:53006
- Kapshlyvt, A. A. (with Yazykulyev, M.) Solution of boundary value problems of p -analytic functions with the characteristic $p = x/(x^2 + y^2)$ for a half-plane with cross-cuts. (Russian) 90a:30118
- Kovács, A. p -analytische Funktionen zum Bestimmen der Integralgleichung des Potentials der Bewegungen der Geschwindigkeiten eines kompressiblen Fluids durch Profilnetze. (Romanian summary) [p -analytic functions for determining the integral equation of the velocity potential of a compressible fluid by means of profile grids] 90e:76093
- Mandzhavidze, G. F. see Akhalya, G. Ya., 90c:30042
- Mikhailov, L. G. Generalized analytic functions of several variables. (Russian) 90a:32008

- A quasilinear generalized Cauchy-Riemann system with three independent complex variables. (Russian. Tajiki summary) 90c:35070
- Miroshin, N. V. The maximal Vekua space and spaces close to it. (Russian) 90a:46076
- Mukhsinov, A. (with Muminov, A.) The Dirichlet problem for a singular differential equation of elliptic type. (Russian. Tajiki summary) 90b:35104
- Muminov, A. see Mukhsinov, A., 90b:35104
- Murtazaev, D. On the generalized Cauchy-Riemann system with constant coefficients. (Russian. Tajiki summary) 90j:35077
- Radzhabov, N. R. Explicit representations of solutions of systems of second-order differential equations of elliptic type with a singular line. (Russian. Tajiki summary) 90c:35039
- A new method of representing solutions of systems of second-order differential equations of elliptic type. (Russian. Tajiki summary) 90c:35040
- Renelt, Heinrich ★ Elliptic systems and quasiconformal mappings. 90k:35086
- Rodin, Yu. L. ★ The Riemann boundary problem on Riemann surfaces. 90f:30054
- Shirokova, E. A. see Amirkhanova, S. G., 90c:30047
- So, Gi Yong On a differential boundary value problem with shift for a generalized analytic function. (Korean. English summary) 90b:30104
- Tokibetov, Zh. A. The Riemann-Hilbert problem for a system that is a generalization of a holomorphic vector. (Russian) 90c:35132
- Torvasyan, N. E. Well-posed boundary value problems for the Carleman-Vekua equation in a half-plane. (Russian) 90c:35059
- Tungatarov, A. The Riemann-Hilbert problem for the generalized Cauchy-Riemann system with a finite number of singular points. (Russian. Kazakh summary) 90b:30050
- A Carleman-Vekua equation with a singular point. 90b:35106
- Tutschke, Wolfgang Contraction-mapping principles for initial value problems with generalized analytic initial functions. 90k:35007
- ★ Solution of initial value problems in classes of generalized analytic functions. 90k:35006
- Verkhovod, D. B. A conjugation boundary value problem for solutions of a quasilinear Beltrami equation on compact Riemann surfaces. (Russian) 90k:30083
- Wen, Guo Chun Some boundary value problems for nonlinear degenerate elliptic complex equations. 90j:35093
- Xu, Ke Ming see Yang, Guang Wu, 90a:35077
- Yang, Guang Wu (with Xu, Ke Ming) Discontinuous Riemann boundary value problems for complex first-order nonlinear elliptic equations. (Chinese. English summary) 90a:35077
- Yazykulyev, M. see Kapshlyvt, A. A., 90a:30118

30G25 Discrete analytic functions

- Vijayakumar, Ambat Some characterization theorems for the discrete holometric space. 90i:30078

30G30 Other generalizations of analytic functions (including abstract-valued functions)

- Borichev, A. A. (with Volberg, A. L.) Uniqueness theorems for almost analytic functions. (Russian) 90k:30090
- Boundary uniqueness theorems for almost analytic functions, and asymmetric algebras of sequences. 90d:30129
- Volberg, A. L. see Borichev, A. A., 90k:30090

Items with secondary classifications in 30G30

- Abdushukurov, A. M. An integral representation of solutions of the Moisil-Teodorescu system with singularities in the small terms. (Russian) 90g:35029
- Akin, Ömer (with Çelebi, A. Okay) Generalized Cauchy-Riemann equations and the positive k -subharmonic functions. 90b:31002
- Alpay, Daniel (with Gohberg, I.) Unitary rational matrix functions. 90m:47006
- Ball, Joseph A. (with Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. 90m:47002
- Bernal Serrano, Antonio Holomorphic functions taking values in quasi-Banach spaces and the three-line theorem. (Spanish. English summary) 90c:46056
- Çelebi, A. Okay see Akin, Ömer, 90b:31002
- Cohen, Jonathan Cauchy formulae for functions analytic of order two on C^1 domains with applications to elastostatics and hydrostatics. 90b:35076
- Gehring, F. W. (with Martin, G. J.) The matrix and chordal norms of Möbius transformations. 90d:30060
- Gohberg, I. see Ball, Joseph A.; et al., 90m:47002; Alpay, Daniel, 90m:47006 and Topics in interpolation theory of rational matrix-valued functions, 90m:47001
- Iranov, O. V. Generalized analytic functions and the two-sheeted corona theorem. (Russian. English summary) 90i:46099
- Katsnel'son, V. E. A left Blaschke-Potapov product is not necessarily a right Blaschke-Potapov product. (Russian. English summary) 90b:47030
- Martin, G. J. see Gehring, F. W., 90d:30060
- Rodman, Leiba see Ball, Joseph A.; et al., 90m:47002

Items listed otherwise than by author

- Topics in interpolation theory of rational matrix-valued functions ★ Topics in interpolation theory of rational matrix-valued functions. 90m:47001

30G35 Functions of hypercomplex variables and generalized variables

- Akhalya, G. Ya. (with Mandzhavidze, G. F.) On the Green identity for generalized analytic vectors. (Russian. English and Georgian summaries) 90d:30130
- Bezkravnyy, Yu. D. Faber matrix series. (Russian) (see 90i:00006)
- Constales, Denis On separately monogenic functions. 90m:30066
- Dyakova, D. N. Quaternion functions that are associated with analytic functions of a complex variable. (Bulgarian. English and Russian summaries) 90b:30109

- Good, I. J. A simple generalization of analytic function theory. 90a:30136
- Huang, Si Xun Clifford algebra, theory of its functions and their application to mechanics. 90j:30072
- Lounesto, Pertti (with Springer, Arthur) Möbius transformations and Clifford algebras of Euclidean and anti-Euclidean spaces. 90d:30131
- Mandzhavidze, G. F. see Akhalaya, G. Ya., 90d:30130
- Marinov, Marin Stefanov Cauchy-Riemann equations in a class of quaternion functions. (Russian. English and Bulgarian summaries) 90h:30110
- On a class of hyperholomorphic functions. 90a:30137
- Martin, E. Dale Some elements of a theory of multidimensional complex variables. I. General theory. 90m:30067
- Some elements of a theory of multidimensional complex variables. II. Expansions of analytic functions and application to fluid flows. 90m:30068
- Näno, Kiyoharu Domains of hyperholomorphy in $C^2 \times C^2$. 90k:30091
- On the octonionic linearization of Laplacian and octonionic function theory. 90i:30079
- Ryan, John Iterated Dirac operators and conformal transformations in R^n . 90m:30069
- Sano, Kimiro The derivatives of Cauchy's kernel and Cauchy's estimate in Clifford analysis. 90g:30046
- Schmieder, L. Beitrag zur Quaternionenrechnung. [Contribution to the calculus of quaternions] (see 90a:30025)
- Shpil'ker, G. L. Some spectral properties of representations of hypercomplex wave fields. (Russian) 90c:30081
- Sommen, F. Plane wave decompositions of monogenic functions. 90d:30132
- Power series expansions for monogenic functions. 90i:30080
- Springer, Arthur see Lounesto, Pertti, 90d:30131
- Xiong, Xi Jin Hypercomplex functionals. III. Uniqueness theorem and a class of boundary value problems of a new type. (Chinese. English summary) 90b:30058a
- Multivariable hypercomplex functionals and their iterated integrals. (Hypercomplex functions. IV). (Chinese. English summary) 90b:30058b
- Xu, Zhen Yuan Several fundamental theorems for regular functions with values in a Clifford algebra. (Chinese. English summary) 90m:30070
- Zeng, Yue Sheng The sufficient and necessary conditions of univalent matrix functions. (Chinese summary) 90h:30111
- On Riemann boundary value problem for hyperanalytic function in rectifiable open curve. (Chinese summary) 90h:30112
- Zill, Georg Regular n -forms in Clifford analysis, their behavior under change of variables and their residues. 90c:30051

Items with secondary classifications in 30G35

- Brackx, F. (with Constaes, Denis; Ronveaux, A.; Serras, H.) On the harmonic and monogenic decomposition of polynomials. 90i:30001
- Constaes, Denis see Brackx, F.; et al., 90i:30001
- Deheweis, René Une application des algèbres de Clifford. [An application of Clifford algebras] 90m:53029
- Gürlebeck, Klaus (with Sprössig, Wolfgang) Methods of quaternionic analysis for the analytical and numerical consideration of boundary value problems. 90h:35012
- Inenaga, Yoshikazu see Näno, Kiyoharu, 90k:32015
- Kon, B. A. Factorization of piecewise valued matrix functions and its applications. 90a:47034
- Kovalishina, I. V. Theory of a multiple j -elementary matrix-function with a pole on the boundary of the unit disk. (Russian) 90a:47035
- Näno, Kiyoharu (with Inenaga, Yoshikazu) On quaternionic analysis of holomorphic mappings in C^2 . 90k:32015
- Ronveaux, A. see Brackx, F.; et al., 90i:30001
- Serras, H. see Brackx, F.; et al., 90i:30001
- Sommen, F. A Clifford-Radon transform in Euclidean space. 90k:81096
- Clifford-Radon transforms applied to massless fields. 90a:81060
- Spingroups and spherical means. III. 90k:22018
- Sprössig, Wolfgang see Gürlebeck, Klaus, 90h:35012
- Zeng, Yue Sheng A class of hypercomplex singular integral equations on rectifiable closed curves. (Chinese. English summary) 90b:45015

30G99 None of the above, but in this section

- Cai, Hui Jing The Bergman kernel of a class of generalized analytic functions. (Chinese. English summary) 90a:30138
- Ren, Hong Shao The hyperbolic quasifield of numbers on the plane and analytic functions on it. I. (Chinese. English summary) 90a:30139

Items with secondary classifications in 30G99

- Grabowski, Marek (with Tze, Chia Hsiung) Generalized self-dual bosonic membranes, vector cross-products and analyticity in higher dimensions. 90g:53086
- Levinskii, S. V. Noether theory of the first boundary value problem for polyanalytic functions. (Russian) 90k:30082
- Rasner, K. M. Solution of boundary value problems of Riemann type for polyanalytic functions in the case of multiply connected domains. 90h:30103
- Sedletskii, A. M. Analytic functions in nonharmonic Fourier analysis. (Russian. Serbo-Croatian summary) 90m:42041
- Tze, Chia Hsiung see Grabowski, Marek, 90g:53086

30H05 Spaces and algebras of analytic functions [see also 32E25, 46Exx, 46J15]

- Abanin, A. V. Weakly sufficient sets in some spaces of entire functions. (Russian) (see 90i:00006)
- Bhave, N. S. (with Raghunathan, T. T.) A note on a theorem of Iyer. 90d:30133
- Gil'mardinova, A. Ya. A theorem on the extension of spectral synthesis. (Russian) 90a:30140

- Grigoryan, N. V. Convergence of sequences in M. M. Dzhrbashyan's spaces. (Russian) 90k:30092
- Gupta, J. S. On the space of entire Dirichlet series. 90h:30113
- Hayashi, Mikihiko (with Nakai, Mitsuru) Point separation by bounded analytic functions of a covering Riemann surface. 90a:30141
- Kushnirchuk, I. F. Bases of analytic spaces that are generated by linear continuous operators. (Russian) (see 90d:00046)
- Kurbakov, T. T. Generators in a ring of entire functions of exponential type. (Russian) (see 90d:41001)
- Nagnibida, N. I. Strongly cyclic elements of some operators in analytic spaces. (Russian) (see 90d:00046)
- Nakai, Mitsuru see Hayashi, Mikihiko, 90a:30141
- Raghunathan, T. T. see Bhave, N. S., 90d:30133
- Shamoyan, F. A. Description of closed ideals in Nevanlinna-Dzhrbashyan algebras, and characterization of weakly cyclic elements of the algebra N^+ . 90k:30093
- Srivastava, P. D. The classical interpretation of convergence in the space of entire functions of Seremet order not exceeding p is obtained. (Russian and Polish summaries) 90h:30114
- Yulmukhametov, R. S. Duality in convex domains. (Russian) (see 90d:41001)

Items with secondary classifications in 30H05

- Akeryd, John Point evaluations and polynomial approximation in the mean with respect to harmonic measure. 90a:46050
- Arazy, Jonathan (with Fisher, S. D.; Peetre, Jaak) Besov norms of rational functions. 90a:46051
- Membership of Hankel operators on planar domains in unitary ideals. 90g:47048
- Axler, Sheldon (with Gorkin, Pamela) Sequences in the maximal ideal space of H^∞ . 90h:46087
- Bercovici, H. ★ Operator theory and arithmetic in H^∞ . 90a:47001
- Bhave, N. S. Bornological properties of some generalized spaces of entire functions. 90b:46054
- Bishop, Christopher J. An element of the disk-algebra that is stationary on a set of positive length. (Russian) 90k:30064
- Constructing continuous functions holomorphic off a curve. 90a:46134
- Boman, Jan (with Janson, Svante; Peetre, Jaak) Big Hankel operators of higher weight. 90c:47031
- Borichev, A. A. Boundary uniqueness theorems for almost analytic functions, and asymmetric algebras of sequences. 90d:30129
- de Branges, Louis Krein spaces of analytic functions. 90c:47060
- Brui, I. N. On the strong constructive characterization of analytic functions of Hölder classes. (Russian) (Not in MR)
- Burbea, J. Exponential inequality for holomorphic functions with finite Dirichlet integrals. 90k:30065
- Chan, Kit Chak On the Dirichlet space for finitely connected regions. 90j:46029
- Charris Castañeda, Jairo A. (with Huérfano, Ruth S.) On some spaces of analytic functions and their duality relations. 90m:46038
- Dudziak, James A weak-star rational approximation problem connected with subnormal operators. 90k:30072
- Eoff, C. M. Fréchet envelopes of certain algebras of analytic functions. 90g:46075
- Fisher, S. D. see Arazy, Jonathan; et al., 90a:46051
- Forstnerič, Franc Polynomial hulls of sets fibered over the circle. 90g:32018
- Garnett, T. W. On analytic disks in the spectrum of a uniform algebra. 90d:46076
- Weak-star closed algebra containing $R(K)$. 90d:46077
- Gorkin, Pamela Gleason parts and COP. 90a:46043
- see also Axler, Sheldon, 90h:46087
- Hayashi, Eric Classification of nearly invariant subspaces of the backward shift. 90m:47013
- Hedenmalm, Håkan On the f - and K -properties of certain function spaces. 90g:46076
- Huérano, Ruth S. see Charris Castañeda, Jairo A., 90m:46038
- Ivanov, O. V. Generalized analytic functions and the two-sheeted corona theorem. (Russian. English summary) 90b:46099
- Janson, Svante see Boman, Jan; et al., 90c:47031
- Kolaski, Clinton J. Isometries of some smooth normed spaces of analytic functions. 90c:46044
- Linchuk, S. S. see Nagnibida, N. I., 90k:47066
- Mochizuki, Naomichi Algebras of holomorphic functions between H^p and N_+ . 90a:46137
- Mortini, Raymond (with von Renteln, Michael) Some remarkable properties of the Wiener algebra W^+ . 90a:46143
- (with von Renteln, Michael) Ideals in the Wiener algebra W^+ . 90a:46138
- Corona theorems for subalgebras of H^∞ . 90h:46088
- Nagnibida, N. I. (with Linchuk, S. S.) Equivalence of differential operators in a space of functions that are analytic in the disk. (Russian) 90k:47066
- Nakai, Mitsuru Valuations on meromorphic functions of bounded type. 90a:30133
- Ohno, Yoshiki A problem of prediction theory type in T^2 . 90b:46057
- Partington, Jonathan R. ★ An introduction to Hankel operators. 90c:47047
- Pavone, Marco On the positive linear functionals on the disc algebra. 90i:46049
- Peetre, Jaak Hankel forms on multiply connected plane domains. I. The case of connectivity two. 90j:30013
- see also Arazy, Jonathan; et al., 90a:46051 and Boman, Jan; et al., 90c:47031
- Popenov, S. V. A class of weighted spaces of entire functions. (Russian) (see 90d:41001)
- von Renteln, Michael see Mortini, Raymond, 90a:46138 and 90a:46143
- Rochberg, Richard Deformation theory for algebras of analytic functions. 90b:46111
- Rupp, Rudolf Stable rank of subalgebras of the disc algebra. 90b:46087
- Sakai, Makoto Finiteness of the family of simply connected quadrature domains. 90a:30114
- Samokhin, M. V. Boundary behavior of analytic functions in domains of arbitrary connection. (Russian. Armenian summary) 90c:30053
- Sarason, Donald Nearly invariant subspaces of the backward shift. 90m:47012
- Skwarczyński, Maciej L^2 -angles between one-dimensional tubes. 90a:46062
- Tits, J. P. J. On certain sub-spaces of Γ . 90d:46040

- Wang, Jian The corona theorem with infinite data on a class of infinitely connected domains. (Chinese) 90c:30060
 — A corona theorem for countably many functions on a class of infinitely connected domains. 90j:46050
 Wolf, Edwin Superharmonic functions and bounded point evaluations. 90h:31002
 Xiao, Jie¹ Equivalence between Bloch space and BMOA space. (Chinese summary) (Not in MR)
 Xiao, Jie² Completeness for $H^p(D)$ -space. 90a:46058
 Zinsmeister, Michel Les domaines de Carleson. [Carleson domains] 90i:30054

31-XX Potential theory {For probabilistic potential theory, see 60J45.}

31-00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 31-00

Items listed otherwise than by author

Reviews in complex analysis ★ Reviews in complex analysis 1980-86. Vol. 1-4. 90b:00013

31-02 Advanced exposition (research surveys, monographs, etc.)

Wu, Jiong Qi The Martin boundary and its applications. (Chinese. English summary) 90i:31001

Items with secondary classifications in 31-02

- Antonov, V. A. (with Timoshkova, E. I.; Kholoshevnikov, K. V.) ★ Введение в теорию ньютоновского потенциала. (Russian) [Introduction to the theory of Newtonian potential] 90b:86009
 Kholoshevnikov, K. V. see Antonov, V. A.; et al., 90b:86009
 Martio, O. ★ Potential theoretic aspects of nonlinear elliptic partial differential equations. 90h:31012
 Pagani, Carlo Domenico On the harmonic moments of a plane domain. 90m:31004
 (Shkodrov, V. G.) see Antonov, V. A.; et al., 90b:86009
 Timoshkova, E. I. see Antonov, V. A.; et al., 90b:86009

31-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 31-03

- Choquet, Gustave The birth of capacity theory: reflections on a personal experience. (Czech) 90e:01035
 (Green, George) see Lyubimov, Yu. A., 90i:01019
 Lyubimov, Yu. A. G. Green's contribution to the development of electromagnetism. (Russian. English summary) 90i:01019
 (Netuka, Ivan) see Choquet, Gustave, 90e:01035

Items listed otherwise than by author

Biography:
 Green, George see Lyubimov, Yu. A., 90i:01019

31-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 31-04

- Brebbia, C. A. (with Domínguez, Jose) ★ Boundary elements: an introductory course. 90a:73003
 Domínguez, Jose see Brebbia, C. A., 90a:73003

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

- Andrievskii, V. V. Constructive characterization of harmonic functions in domains with a quasiconformal boundary. 90h:31001
 Baernstein, Albert, II An extremal problem for certain subharmonic functions in the plane. 90h:31001
 Bonnell, F. F. (with Walsh, D.) Vanishing l^1 -sums of the Poisson kernel, and sums with positive coefficients. 90m:31001
 Colonna, Flavia The Bloch constant of bounded harmonic mappings. 90k:31002
 Djebbar, Bachir see Nguyen Thanh Van, 90f:31001
 Elderman, V. Ya. An exceptional set in asymptotic estimates of subharmonic functions. 90d:31001
 FitzGerald, Carl H. An extremal problem for harmonic functions. 90c:31001
 Gelfand, A. A. (with Sokolovskaya, O. P.) Growth on a ray of a subharmonic function with a mass that is distributed on the negative halfaxis. (Russian) 90c:31002
 Greenberg, Peter (with Porter, R. Michael) A homeomorphism of the circle extends to a harmonic diffeomorphism of the disk. 90d:31002

- Hayman, W. K. Exceptional sets in potential theory. (Spanish summary) 90i:31002
 Khabibullin, B. N. Lower bounds and homogeneity properties of subharmonic functions. (Russian) (see 90d:41001)
 Kondratyuk, A. A. The growth of integral q -means and a deficiency of functions that are subharmonic in \mathbb{R}^n . 90i:31003
 Levin, B. Ya. Subharmonic majorants and some applications. 90a:31001
 — Majorants in classes of subharmonic functions. (Russian) 90i:31004
 — The connection of a majorant with a conformal mapping. II. (Russian) 90m:31002
 — Classification of closed sets on \mathbb{R} and representation of a majorant. III. (Russian) 90m:31003
 Mukhlisov, F. G. B -superharmonic functions. (Russian) (see 90d:00046)
 Nezhmetdinov, I. R. One-sided moduli of continuity and sharp estimates for harmonic functions in an annulus. (Russian) 90b:31001
 Nguyen Thanh Van (with Djebbar, Bachir) Propriétés asymptotiques d'une suite orthonormale de polynômes harmoniques. (English summary) [Asymptotic properties of an orthonormal sequence of harmonic polynomials] 90f:31001
 Nguyen Xuan Loc Stochastic differentiation formula and convergence theorem for finely hypoharmonic functions. 90c:31001
 Pagani, Carlo Domenico On the harmonic moments of a plane domain. 90m:31004
 Pavlovic, Miroslav Convolution in the harmonic Hardy class h^p with $0 < p < 1$. 90i:31005
 Porter, R. Michael see Greenberg, Peter, 90d:31002
 Shvedenko, S. V. A theorem of Hardy-Littlewood type for subharmonic functions. (Russian) (see 90i:00006)
 Sokolovskaya, O. P. see Gelfand, A. A., 90c:31002
 Vasilev, Ya. V. Some properties of δ -subharmonic functions of finite λ -type. (Ukrainian. Russian summary) 90k:31003
 — Asymptotic behavior of δ -subharmonic functions of completely regular growth. (Ukrainian. Russian summary) (Not in MR)
 Walker, James Stephan An elementary proof of a theorem of Lelong. 90g:31001
 Walsh, D. see Bonnell, F. F., 90m:31001
 Wolf, Edwin Superharmonic functions and bounded point evaluations. 90h:31002
 Zabolotskii, N. V. Regularity of the growth of Nevanlinna characteristics of subharmonic functions. (Ukrainian. Russian summary) (Not in MR)

Items with secondary classifications in 31A05

- Duren, P. L. (with Schober, Glenn) Linear extremal problems for harmonic mappings of the disk. 90a:30025
 Eriksson-Bique, Sirkka-Liisa (with Leutwiler, Heinz) A generalization of parallel addition. 90h:47005
 Gao, Qi Ren Boundary limits of superharmonic functions. (Chinese. English summary) 90d:31003
 Globevnik, J. Zero integrals on circles and characterizations of harmonic and analytic functions. 90a:44001
 Goldstein, Myron (with Ow, W. H.) Uniform harmonic approximation with continuous extension to the boundary. 90d:41033
 Herron, David A. Metric boundary conditions for plane domains. 90d:30062
 Leutwiler, Heinz see Eriksson-Bique, Sirkka-Liisa, 90h:47005
 McConnell, Terry R. A conformal inequality related to the conditional gauge theorem. 90g:60072
 Ow, W. H. see Goldstein, Myron, 90d:41033
 Rodin, Burt Schwarz's lemma for circle packings. II. 90m:11099
 Schober, Glenn see Duren, P. L., 90a:30025

31A10 Integral representations

Items with secondary classifications in 31A10

- Huber, Alfred Konforme Verheftung und logarithmisches Potential. [Conformal sewing and logarithmic potential] 90g:30005
 Kaufman, Robert P. (with Wu, Jang-Mei) Dirichlet problem of heat equation for C^2 domains. 90h:35111
 Kondratyuk, A. A. The growth of integral q -means and a deficiency of functions that are subharmonic in \mathbb{R}^n . 90i:31003
 Levin, B. Ya. Majorants in classes of subharmonic functions. (Russian) 90i:31004
 Maz'ya, V. G. (with Solov'ev, A. A.) An integral equation of the Dirichlet problem in a plane domain with cusps on the boundary. (Russian) 90k:45010
 Nédélec, J.-C. Approximation of integral equations with nonintegrable kernels. 90b:65250
 Solov'ev, A. A. see Maz'ya, V. G., 90k:45010
 Wu, Jang-Mei see Kaufman, Robert P., 90h:35111

31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

- Andrievskii, V. V. Some classes of harmonic functions with singularities on a quasiconformal arc. 90i:31006
 Haliste, K. On an extremal configuration for capacity. 90i:31007
 Hsiao, George C. (with Kleinman, R. E.) On a unified characterization of capacity. 90g:31002
 Jones, Peter Wilcox (with Wolff, Thomas H.) Hausdorff dimension of harmonic measures in the plane. 90j:31001
 Kaneko, Hiroshi¹ (with Sakai, Akira) Mean values of harmonic functions and Brownian motion. (Japanese) (Not in MR)
 Kleinman, R. E. see Hsiao, George C., 90g:31002
 Lopes, Artur Oscar A note on δ -equilibrium measures for rational maps. 90i:31008
 Martio, O. Sets of zero elliptic harmonic measures. 90i:31009
 Sakai, Akira see Kaneko, Hiroshi¹, (Not in MR)
 Wolff, Thomas H. see Jones, Peter Wilcox, 90j:31001

Items with secondary classifications in 31A15

- Adams, David R. A note on Choquet integrals with respect to Hausdorff capacity. 90c:26028

- (Ahlfors, L. V.) *see* Baerstein, Albert, II, 90b:30060
 Baerstein, Albert, II Ahlfors and conformal invariants. 90b:30060
 — An extremal problem for certain subharmonic functions in the plane. 90b:31001
 Bishop, Christopher J. (with Carlson, L.; Garnett, J. B.; Jones, Peter Wilcox) Harmonic measures supported on curves. 90d:30069
 Carlson, L. *see* Bishop, Christopher J.; et al., 90d:30069
 Garnett, J. B. *see* Bishop, Christopher J.; et al., 90d:30069
 Gol'dberg, A. A. (with Sokolovskaya, O. P.) Growth on a ray of a subharmonic function with a mass that is distributed on the negative halfaxis. (Russian) 90c:31002
 Jain, D. L. *see* Sampath, C., 90a:45003
 Jerison, D. Harmonic measure in convex domains. 90b:31005
 Jones, Peter Wilcox *see* Bishop, Christopher J.; et al., 90d:30069
 Kaufman, Robert P. (with Wu, Jang-Mei) Dirichlet problem of heat equation for C^2 domains. 90b:35111
 Ortel, Marvin (with Schneider, Walter J.) Uniqueness of bounded harmonic functions. 90c:31003
 Rohde, S. On an estimate of Makarov in conformal mapping. 90b:30022
 Sampath, C. (with Jain, D. L.) On solution of the integral equations for the potential problems of two circular strips. 90a:45003
 Schneider, Walter J. *see* Ortel, Marvin, 90c:31003
 Sokolovskaya, O. P. *see* Gol'dberg, A. A., 90c:31002
 Sotynin, A. Yu. Separation of continua by circles. (Russian) 90c:30015
 Wolf, Edwin Superharmonic functions and bounded point evaluations. 90b:31002
 Wu, Jang-Mei *see* Kaufman, Robert P., 90b:35111

31A20 Boundary behavior (theorems of Fatou type, etc.)

- Alkawa, Hiroaki Harmonic functions having no tangential limits. 90b:31003
 Gao, Qi Ren Boundary limits of superharmonic functions. (Chinese. English summary) 90d:31003
 Ortel, Marvin (with Schneider, Walter J.) Uniqueness of bounded harmonic functions. 90c:31003
 Schneider, Walter J. *see* Ortel, Marvin, 90c:31003
 Items with secondary classifications in 31A20
 Abu-Muhanna, Yusuf (with Lyzzaik, A. K.) The boundary behaviour of harmonic univalent maps. 90m:30044
 Balmeles, Rodrigo (with Moore, Charles N.) Some results in analysis related to the law of the iterated logarithm. 90b:30002
 — (with Moore, Charles N.) Laws of the iterated logarithm, sharp good- λ inequalities and L^p -estimates for caloric and harmonic functions. 90b:42035
 — (with Moore, Charles N.) Sharp estimates for the nontangential maximal function and the Lusin area function in Lipschitz domains. 90b:42030
 Huber, Alfred Konforme Verheftung und logarithmisches Potential. [Conformal sewing and logarithmic potential] 90c:30005
 Lyzzaik, A. K. *see* Abu-Muhanna, Yusuf, 90m:30044
 Mikhailova, T. V. Smoothness of generalized solutions of the Dirichlet problem for a polyharmonic equation in plane domains with a nonsmooth boundary. 90d:35080
 Moore, Charles N. *see* Balmeles, Rodrigo, 90b:30002; 90b:42030 and 90b:42035
 Nerzhvetdinov, I. R. One-sided moduli of continuity and sharp estimates for harmonic functions in an annulus. (Russian) 90b:31001

31A25 Boundary value and inverse problems

- Davydov, A. G. *see* Zakharov, E. V.; et al., 90i:31010
 Herold, H. Lösung einer inhomogenen Randwertaufgabe der Potentialtheorie. [Solution of an inhomogeneous boundary value problem of potential theory] (Not in MR)
 Khaleeva, I. V. *see* Zakharov, E. V.; et al., 90i:31010
 Skorokhodov, S. L. *see* Vlasov, V. I., 90f:31004
 Transirico, Maria Dirichlet problem for the Laplace operator in a rectangle and in a strip. 90e:31002
 Vlasov, V. I. (with Volkov, D. B.) ★ Задача Дирихле в круге с угловым вырезом. (Russian) [The Dirichlet problem in a disk with a corner cut] 90f:31003
 — (with Skorokhodov, S. L.) ★ Аналитическое решение задачи Дирихле для уравнения Пуассона в одном классе полигональных областей. (Russian) [Analytic solution of the Dirichlet problem for the Poisson equation in a class of polygonal domains] 90f:31004
 Volkov, D. B. *see* Vlasov, V. I., 90f:31003
 Zakharov, E. V. (with Davydov, A. G.; Khaleeva, I. V.) Integral equations with Hadamard-type kernels in diffraction problems. (Russian) 90i:31010

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- Freidkin, E. S. *see* Freidkin, S. A., 90g:30041
 Freidkin, S. A. (with Freidkin, E. S.) On a boundary-value problem for harmonic functions. 90g:30041
 Kaufman, Robert P. (with Wu, Jang-Mei) Dirichlet problem of heat equation for C^2 domains. 90b:35111
 Kishikis, K. Yu. On the theory of nonlocal problems for the Laplace equation. 90c:35054
 — Letter to the editors: "The index of the Bitsadze-Samarskii problem for harmonic functions" [Differentsial'nye Uravneniya 24 (1988), no. 1, 105–110; MR 89h:35092]. 90c:35062
 Kuznetsov, N. G. (with Maz'ya, V. G.) Unique solvability of a plane stationary problem connected with the motion of a body submerged in a fluid. 90c:76024
 — A two-dimensional problem on steady oscillations of a fluid in the presence of two semisubmerged cylinders. (Russian) 90c:76028
 Lewis, John L. (with Silver, Judy) Parabolic measure and the Dirichlet problem for the heat equation in two dimensions. 90c:35079
 Maz'ya, V. G. A boundary integral equation of the Dirichlet problem in a plane domain with a cusp at the boundary. (Russian) 90c:35045
 — *see also* Kuznetsov, N. G., 90c:76024

- Ortel, Marvin (with Schneider, Walter J.) Uniqueness of bounded harmonic functions. 90c:31003
 Prilepka, A. I. An iterative-parametric method for solving a plane inverse problem of potential theory. (Russian) (see 90d:00020)
 Rundell, William Errata: "Some inverse problems for elliptic equations" [Appl. Anal. 28 (1988), no. 1, 67–78; MR 90b:35244]. 90b:35245
 Schneider, Walter J. *see* Ortel, Marvin, 90c:31003
 Silver, Judy *see* Lewis, John L., 90c:35079
 Wu, Jang-Mei An example on null sets of parabolic measures. 90c:35083
 — *see also* Kaufman, Robert P., 90b:35111

31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

- Aronsson, Gunnar (with Lindqvist, Peter) On p -harmonic functions in the plane and their stream functions. 90g:31003
 Cialeda, Alberto A completeness theorem for biharmonic polynomials in a field with angular boundary. (Italian. English summary) 90a:31002
 Lindqvist, Peter *see* Aronsson, Gunnar, 90g:31003
 Novikov, V. V. On a qualitative property of the solutions of the biharmonic equation in the plane. (Russian) 90c:31004

Items with secondary classifications in 31A30

- Bonk, M. (with Wirths, K.-J.) Über Häufungsstellen stationärer Punkte. [On the limiting points of stationary points] 90i:30039
 Destuynder, Philippe (with Ousset, Y.; Stackler, C.) Sur les singularités de contraintes dans les joints collés. (English summary) [Remarks on the singular stresses arising at the extremities of an adhesive joint] 90d:73012
 Flavin, J. N. (with Knops, R. J.) Some convexity considerations for a two-dimensional traction problem. 90a:73029
 Horgan, C. O. Decay estimates for the biharmonic equation with applications to Saint-Venant principles in plane elasticity and Stokes flows. 90f:73012
 Knops, R. J. *see* Flavin, J. N., 90a:73029
 Lions, P.-L. On the Schwarz alternating method. II. Stochastic interpretation and order properties. 90c:65140
 Mikhailova, T. V. Smoothness of generalized solutions of the Dirichlet problem for a polyharmonic equation in plane domains with a nonsmooth boundary. 90d:35080
 Ortel, M. R. Determination of free oscillations of an elastic plate by means of N -parametric eigenfunctions of a biharmonic operator. 90c:73078
 Ousset, Y. *see* Destuynder, Philippe; et al., 90d:73012
 Stackler, C. *see* Destuynder, Philippe; et al., 90d:73012
 Wirths, K.-J. *see* Bonk, M., 90i:30039

31A99 None of the above, but in this section

- Makin, Yu. I. Estimates for the derivatives of solutions of integral equations of potential theory. 90d:31004
 Nguyen Xuan Loc The relation between the bounded point derivation and the fine derivation. 90d:31005
 Shidfar, Afima Abdullah Lyapunov and Kellogg planes. (Persian) (see 90m:00045)

Items with secondary classifications in 31A99

- Michalčák, Johannes (with Wehrhahn, Rodolfo) Parametrization of domains in \mathbb{C} : the logarithmic domains. 90k:30009
 Wehrhahn, Rodolfo *see* Michalčák, Johannes, 90k:30009

31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

- Akin, Ömer (with Çelebi, A. Okay) Generalized Cauchy-Riemann equations and the positive k -subharmonic functions. 90b:31002
 Armittage, David H. A uniqueness theorem for harmonic functions on half-spaces. 90c:31002
 Benyamini, Yoav (with Weit, Yitzhak) Functions satisfying the mean value property in the limit. 90a:31003
 Berenstein, Carlos A. (with Gay, Roger) Le problème de Pompeiu local. (English summary) [The local Pompeiu problem] 90c:31005
 Berglez, P. Zur Darstellung von verallgemeinerten biaxialsymmetrischen Potentialen. [On the representation of generalized biaxially symmetric potentials] 90g:31004
 Blasco De La Cruz, Oscar Vector-valued harmonic functions and cone absolutely summing operators. 90c:31011
 Burkholder, Donald L. Differential subordination of harmonic functions and martingales. 90c:31004
 Cámera, G. A. On a condition of thinness at infinity. 90d:31006
 Çelebi, A. Okay *see* Akin, Ömer, 90b:31002
 Cialeda, Alberto On the oblique derivation problem for the Laplace equation, and related topics. (Italian. English summary) 90d:31007
 Domar, Yagve Uniform boundedness in families related to subharmonic functions. 90d:31008
 Dzhravarishvili, A. G. Various nontangent characteristics for harmonic functions. (Russian. English and Georgian summaries) (Not in MR)
 Fryant, A. (with Shankar, Hari) Bounds on the maximum modulus of harmonic functions. 90i:31012
 Gardiner, Stephen J. Convexity and subharmonicity. 90i:31013
 — Local growth properties of superharmonic functions. 90m:31005
 Gay, Roger *see* Berenstein, Carlos A., 90c:31005
 Globovnik, J. (with Rudin, Walter) A characterization of harmonic functions. 90a:31004

- Gong, Xian Zong Functions with the restricted mean value property. (Chinese. English summary) 90d:31009
- Gur'yanova, K. N. (with Plotnikova, L. A.) The use of a function of an isotropic vector in solving some three-dimensional problems in potential theory. (Russian) 90f:31005
- Herron, David A. (with Schiff, Joel L.) Positive harmonic functions and complete metrics. 90h:31004
- Jerison, D. Harmonic measure in convex domains. 90h:31005
- Khabibullin, B. N. Asymptotic approximation of subharmonic functions by subharmonic functions with special properties. (Russian) 90h:31003
- Leutwiler, Heinz On BMO and the torsion function. 90d:31010
- On the Appell transformation. 90c:31006
- Maeda, Fumi-Yuki (with Suzuki, Noriaki) The integrability of superharmonic functions on Lipschitz domains. 90h:31004
- Plotnikova, L. A. see Gur'yanova, K. N., 90f:31005
- Rashkovskii, A. Yu. Growth and decrease of subharmonic functions in a cone. 90m:31006
- Rosay, J.-P. (with Rudin, Walter) A maximum principle for sums of subharmonic functions, and the convexity of level sets. 90h:31006
- Rudin, Walter see Globevnik, J., 90a:31004 and Rosay, J.-P., 90h:31006
- Schiff, Joel L. see Herron, David A., 90h:31004
- Schoenbek, Tomas On products of harmonic polynomials. 90m:31007
- Shankar, Hari¹ see Fryant, A., 90h:31012
- Suzuki, Noriaki see Maeda, Fumi-Yuki, 90h:31004
- Tamrazov, P. M. Removal of singularities of subharmonic, plurisubharmonic functions and their generalizations. 90d:31011
- Veselovskaya, O. V. Approximation and growth of entire functions that are harmonic in \mathbb{R}^n . (Ukrainian. Russian summary) (Not in MR)
- Weit, Yitzhak An asymptotic characterization of harmonic functions. 90d:31012
- see also Benyamini, Yoav, 90a:31003
- Wen, Ming Decomposition theorems for harmonic functions in $L^p(\mathbb{R}_+^{n+1})$. 90d:31013

Items with secondary classifications in 31B05

- Armitage, David H. (with Goldstein, Myron) Characterizations of thin and semi-thin sets. 90c:31005
- Avanissian, Vazgan Sur le L -type du prolongement holomorphe des fonctions harmoniques entières. (English summary) (On the L -type of the complexification of entire harmonic functions) 90c:32002
- Baerstein, Albert, II Some topics in symmetrization. 90h:26022
- Chen, Wen Yi Log subharmonic functions and weighted Carleman inequalities. (Chinese. English summary) 90d:31021
- Goldstein, Myron see Armitage, David H., 90c:31005
- Greengard, L. (with Rokhlin, Vladimir V.) The rapid evaluation of potential fields in three dimensions. (see 90a:76040)
- Hayman, W. K. Ahlfors' theorem on asymptotic values and some developments from it. 90d:30084
- Rokhlin, Vladimir V. see Greengard, L., (90a:76040)
- Sekerin, A. B. Integral representation of subharmonic functions. (Russian) (see 90d:41001)
- Shimomura, Katsunori The growth of the positive solutions of $Lu = 0$ near the boundary of an inner NTA domain. 90c:35017
- Yamaguchi, Hiroshi¹ Variations of pseudoconvex domains over \mathbb{C}^n . 90k:32059

31B10 Integral representations

- Grachev, N. V. (with Maz'ya, V. G.) Representations and estimates for inverse operators of integral equations of potential theory for surfaces with conic points. (Russian. English and Georgian summaries) 90c:31014
- Král, Josef The weak normal derivative of a simple layer potential with summable density. (Russian) 90m:31008
- Maz'ya, V. G. see Grachev, N. V., 90c:31014

Items with secondary classifications in 31B10

- Angell, T. S. (with Kleinman, R. E.; Roach, G. F.) Iteration methods for potential problems. 90d:65225
- Barcelo, Tomas A completely singular harmonic measure for a nondivergence form elliptic operator with a drift. 90c:31003
- Kleinman, R. E. see Angell, T. S.; et al., 90d:65225
- Kurokawa, Takahide Integral representation of smooth functions in weight classes and its application. 90a:46074
- Roach, G. F. see Angell, T. S.; et al., 90d:65225
- Van Tuyl, Andrew H. Electrostatic problems for two conducting spheres. 90i:78012
- Wagenknecht, Niels Die zweite Randwertaufgabe der Potentialtheorie als duales Gegenstück zur ersten. [The second boundary value problem of potential theory as dual counterpart to the first one] 90h:31009

31B15 Potentials and capacities, extremal length

- Armitage, David H. (with Goldstein, Myron) Characterizations of thin and semi-thin sets. 90c:31005
- Barcelo, Tomas A completely singular harmonic measure for a nondivergence form elliptic operator with a drift. 90c:31003
- Cherednichenko, V. G. Estimates for a gradient of Newton's mass potential. (Russian) 90c:31004
- Dal Maso, Gianni (with Defranceschi, Anneliese) Some properties of a class of nonlinear variational μ -capacities. 90a:31005
- Defranceschi, Anneliese see Dal Maso, Gianni, 90a:31005
- Dyakina, V. V. (with Raevskii, V. Ya.) Properties of the operators of classical potential theory. (Russian) 90h:31006
- Emgusheva, G. P. (with Nogin, V. A.) Riesz derivatives with nonstandard truncation and their application to the inversion and description of potentials that commute with dilations. 90d:31014
- Goldstein, Myron see Armitage, David H., 90c:31005

- Han, Yong Sheng Riesz potential operators on certain Hardy-type spaces $H_0^{p,q}(\mathbb{R}^n)$. 90d:31015
- Heinonen, Juha Boundary accessibility and elliptic harmonic measures. 90c:31015
- Hornberg, Alexander Jump relations for surface potentials in case of continuous densities. 90f:31006
- Kerman, R. A. Weighted restriction theorems for Bessel potentials. (Russian summary) 90h:31005
- Krikeles, Basil C. A good λ inequality for double layer potentials of surfaces that are not Lipschitz. 90c:31016
- Miloh, T. A note on the potential of a homogeneous ellipsoid in ellipsoidal coordinates. 90m:31009
- Mizuta, Yoshihiro Continuity properties of Riesz potentials and boundary limits of Beppo Levi functions. 90m:31010
- Nogin, V. A. see Emgusheva, G. P., 90d:31014
- Raevskii, V. Ya. see Dyakina, V. V., 90h:31006
- Tarkhanov, N. N. A family of capacities that characterize removable singularities. 90c:31005
- Zoril, N. V. A generalization of the notion of a condenser, and extremal problems associated with it. (Russian) 90h:31006
- The problem of the minimum of the Green energy for three-dimensional capacitors. 90m:31011

Items with secondary classifications in 31B15

- Aizenberg, L. A. (with Prenov, B. B.) Application of a multidimensional logarithmic residue to Poisson's summation formula. (Russian) 90g:32003
- Akimov, A. N. (with Tsaritsyna, I. V.) The method of boundary integral equations for solving three-dimensional problems for the Laplace and Helmholtz equations. (Russian) 90c:65199
- Al-Chekik Fattouh, Ramez Über die Stetigkeit von verallgemeinerten Wärmepotentialen. [On the continuity of generalized heat potentials] 90j:35100
- Alessandrini, Giovanni Remark on a paper by H. Bellout and A. Friedman: "Identification problems in potential theory" [Arch. Rational Mech. Anal. 101 (1988), no. 2, 143–160; MR 89c:31003]. (Italian summary) 90g:31005
- Anderson, G. D. (with Vamanamurthy, Mavina K.; Vuorinen, Matti) Inequalities for the extremal distortion function. 90c:30022
- (with Vamanamurthy, Mavina K.; Vuorinen, Matti) Special functions of quasiconformal theory. 90k:30032
- Aseev, V. V. (with Varisov, A. K.) Removable singularities of plane topological embeddings with bounded moduli distortion. (Russian) 90c:30029
- (Bellout, Hamid) see Alessandrini, Giovanni, 90g:31005
- Bykhovskii, E. B. Orthogonal subspaces of the space of three-dimensional vectors that are square-integrable over an infinite domain. 90h:46060
- Feyel, Denis (with de La Pradelle, Arnaud) Étude de l'équation $\frac{1}{2}\Delta u - \mu u = 0$ où μ est une mesure positive. [Study of the equation $\frac{1}{2}\Delta u - \mu u = 0$, where μ is a positive measure] 90j:35074
- (Friedman, Avner) see Alessandrini, Giovanni, 90g:31005
- Heurteaux, Yanick Inégalités de Harnack à la frontière pour des opérateurs paraboliques. II. Estimations de la mesure harmonique de certains ouverts de \mathbb{R}^{n+1} . (English summary) [Boundary Harnack inequalities for parabolic operators. II. Estimations of the harmonic measure of some open sets of \mathbb{R}^{n+1}] 90f:35006
- Heino, George C. (with Kleinman, R. E.) On a unified characterization of capacity. 90g:31002
- Kleinman, R. E. see Hsiao, George C., 90g:31002
- de La Pradelle, Arnaud see Feyel, Denis, 90j:35074
- Mynbaev, K. T. On the space of anisotropic Riesz potentials. (Russian. Kazakh summary) 90c:46077
- Øksendal, Bernt Harmonic measures and fractals. (Norwegian. English summary) 90c:28010
- Prenov, B. B. see Aizenberg, L. A., 90g:32003
- Romanov, A. S. A capacity analogue for the Lebesgue theorem on the differentiation of an integral. 90h:26014
- Shlyk, V. A. C_p -capacity and normal domains. 90k:28009
- Tsaritsyna, I. V. see Akimov, A. N., 90c:65199
- Vamanamurthy, Mavina K. see Anderson, G. D.; et al., 90c:30022 and 90k:30032
- Varisov, A. K. see Aseev, V. V., 90c:30029
- Vuorinen, Matti see Anderson, G. D.; et al., 90c:30022 and 90k:30032
- Ziomer, William P. Uniform differentiability of Sobolev functions. 90f:46054
- Zoril, N. V. A problem of minimum energy for space condensers and Riesz kernels. 90c:31016

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- Alessandrini, Giovanni Remark on a paper by H. Bellout and A. Friedman: "Identification problems in potential theory" [Arch. Rational Mech. Anal. 101 (1988), no. 2, 143–160; MR 89c:31003]. (Italian summary) 90g:31005
- Angell, T. S. (with Kleinman, R. E.; Král, Josef) Layer potentials on boundaries with corners and edges. (Russian and Czech summaries) 90h:31007
- Bavrin, I. I. Integro-differential operators for harmonic functions in convex domains and their applications. (Russian) 90c:31007
- (Bellout, Hamid) see Alessandrini, Giovanni, 90g:31005
- Bitsadze, A. V. On the Neumann problem for harmonic functions. (Russian) 90m:31012
- Didenko, Yu. F. see Gomilko, A. M.; et al., 90h:31007
- (Friedman, Avner) see Alessandrini, Giovanni, 90g:31005
- Gomilko, A. M. (with Didenko, Yu. F.; Koval'chuk, V. F.) Exact solution of a problem of three-dimensional potential theory for two spheres. (Russian) 90h:31007
- Kapanadze, D. V. Solution of an inverse problem in potential theory in the case of piecewise-smooth domains. (Russian) 90c:31008
- Kesavan, S. Some remarks on a result of Talenti. 90k:31007
- Kibirev, V. V. A problem with a directional derivative for harmonic functions. (Russian) (see 90a:00007)

- Kleinman, R. E. *see* Angell, T. S.; et al., 90b:31007
 Kounchev, Ognian Extremal problems for the distributed moment problem. 90b:31007
 Kovalchuk, V. F. *see* Gomilko, A. M.; et al., 90b:31007
 Král, Josef *see* Angell, T. S.; et al., 90b:31007
 Love, E. R. (with Miller, J. B.) On a method of Fabrikant, Sankar and Swamy for a generalized potential problem. 90b:31008
 Mair, B. A. (with Philipp, Stanton; Singman, David) A converse Fatou theorem. 90b:31006
 Miller, J. B. *see* Love, E. R., 90b:31008
 Mokin, Yu. I. On the positivity of integral operators in potential theory. 90c:31009
 Ogasanyan, S. M. An inverse problem of potential theory in the space $L_p(S)$ and approximation of elements in $W_p^1(S)$ by differentiable compactly supported functions. 90c:31010
 Pagani, Carlo Domenico Determining a domain from its harmonic moments. (Italian summary) 90d:31016
 Pavlov, G. A. On the uniqueness of the solution of an abstract inverse problem. 90c:31011
 Philipp, Stanton *see* Mair, B. A.; et al., 90b:31006
 Philippin, G. A. Some extensions of Dirichlet's and Thomson's principles for harmonic vectors. 90j:31002
 Prudnikov, V. Ya. The Dirichlet problem for convex functions. 90c:31012
 Salsa, Sandro On an inverse problem for the Newtonian potential. 90b:31008
 Singman, David *see* Mair, B. A.; et al., 90b:31006
 Wagenknecht, Niels Die zweite Randwertaufgabe der Potentialtheorie als duales Gegenstück zur ersten. [The second boundary value problem of potential theory as dual counterpart to the first one] 90b:31009
 Yarmukhamdorov, Sh. An analogue of the Riemann-Volterra formula for harmonic functions of several variables. 90b:31017

Items with secondary classifications in 31B20

- Cherednichenko, V. G. Estimates for a gradient of Newton's mass potential. (Russian) 90c:31004
 Dassios, George (with Kleinman, R. E.) On Kelvin inversion and low-frequency scattering. 90c:35073
 Filar, Maria (with Szalajko, Krystyna) The Green's function and the boundary problem of the third kind for Poisson equation in the domain E_+^n . (Polish summary) 90c:35044
 Jerison, D. Harmonic measure in convex domains. 90b:31005
 Kleinman, R. E. *see* Dassios, George, 90c:35073
 Kondrat'ev, V. A. (with Oleinik, O. A.) Estimates near the boundary for second-order derivatives of solutions of the Dirichlet problem for the biharmonic equation. (Italian summary) 90d:35079
 Kopylov, Yu. N. (with Sabelfeld, K. K.) * Некоторые приложения метода блуждания по границе. (Russian) [Some applications of the method of random walk along the boundary] 90c:65008
 March, Peter On a stability property of harmonic measures. 90b:60136
 Mar'ya, V. G. (with Nazarov, S. A.) Singularities of solutions of the Neumann problem at a conic point. 90b:35072
 Mizuta, Yoshihiro Continuity properties of Riesz potentials and boundary limits of Beppo Levi functions. 90m:31010
 Nazarov, S. A. *see* Mar'ya, V. G., 90b:35072
 Oleinik, O. A. *see* Kondrat'ev, V. A., 90d:35079
 Sabelfeld, K. K. *see* Kopylov, Yu. N., 90c:65008
 Strakhov, V. N. Analytic continuation and a solution of an inverse problem in gravimetry. (Russian) 90g:86009
 Szalajko, Krystyna *see* Filar, Maria, 90c:35044
 Uchiyama, Köhler A probabilistic proof and applications of Wiener's test for the heat operator. 90b:60099

31B25 Boundary behavior

- Aleksandrov, V. A. Unique determination of domains with non-Jordan boundaries. 90d:31017
 Burs, Stanislaw (with Polit-Gancarczyk, Elzbieta) On the theorem of Fatou for the biharmonic problem in a half-space. 90b:31018
 Gardiner, Stephen J. Minimal harmonic functions on Denjoy domains. 90c:31013
 Mair, B. A. (with Philipp, Stanton; Singman, David) Generalized local Fatou theorems and area integrals. 90m:31013
 Ohtsuka, Makoto On weighted extremal length of families of curves. 90b:31009
 Philipp, Stanton *see* Mair, B. A.; et al., 90b:31013
 Polit-Gancarczyk, Elzbieta *see* Burs, Stanislaw, 90b:31018
 Singman, David *see* Mair, B. A.; et al., 90b:31013

Items with secondary classifications in 31B25

- Barcelo, Tomen A completely singular harmonic measure for a nondivergence form elliptic operator with a drift. 90c:31003
 Bendikov, A. D. (with Pavlov, I. V.) Spaces of harmonic functions with martingale mixed norm. 90b:60066
 Heinonen, Juha Boundary accessibility and elliptic harmonic measures. 90b:31015
 Ikegami, Teruo Compactifications of harmonic spaces and Hunt processes. 90a:60133
 Kazaryan, K. S. The Dirichlet problem in a weighted metric for a ball in \mathbb{R}^n , $n \geq 3$. 90c:35096
 Krutov, V. G. Estimates for maximal operators that are connected with boundary behavior, and their applications. (Russian) 90b:42030
 Mair, B. A. (with Philipp, Stanton; Singman, David) A converse Fatou theorem on homogeneous spaces. 90b:43008
 Pavlov, I. V. *see* Bendikov, A. D., 90b:60066
 Philipp, Stanton *see* Mair, B. A.; et al., 90b:43008
 Pipher, Jill Oblique derivative problems for the Laplacian in Lipschitz domains. 90g:35040
 Singman, David *see* Mair, B. A.; et al., 90b:43008

31B30 Biharmonic and polyharmonic equations and functions

- Cohen, Jonathan BMO estimates for biharmonic multiple layer potentials. 90d:31018

- Kounchev, Ognian Mean value property for biharmonic functions characterizing the annulus. 90c:31007
 Nguyen Thanh Van Bases polynomiales et approximation des fonctions séparément harmoniques dans C^* . (English summary) [Polynomial bases and approximation of separately harmonic functions in C^*] 90b:31008
 Shidfar, Afima Abdullah On the representation of x , y , z and r^2 -forms of a biharmonic function in terms of two harmonic functions and its applications to the Papkovitch representation. 90d:31019
 Shipka, I. G. Properties of a fundamental solution of a fourth-order metaharmonic equation in a Riemannian space. (Ukrainian. Russian summary) (Not in MR)
 Vidali, Theodor Harmonic and polyharmonic functions. 90g:31006
 Items with secondary classifications in 31B30
 Burs, Stanislaw (with Polit-Gancarczyk, Elzbieta) On the theorem of Fatou for the biharmonic problem in a half-space. 90b:31018
 Dalmasso, Robert Solutions positives globales d'une équation biharmonique sur-linéaire. (English summary) [Entire positive solutions of a superlinear biharmonic equation] 90b:35017
 Dzhrasheishvili, A. G. Nontangential maximal functions for biharmonic functions. (Russian) 90c:42035
 Karpeshina, Yu. E. Perturbation theory for a polyharmonic operator with a nonsmooth periodic potential. (Russian. English summary) 90c:35067
 Kondrat'ev, V. A. (with Oleinik, O. A.) Estimates near the boundary for second-order derivatives of solutions of the Dirichlet problem for the biharmonic equation. (Italian summary) 90d:35079
 Lesky, P., Jr. Zur Charakterisierung von Lösungen polyharmonischer Gleichungen im Ganzzraum. [On the characterization of solutions of polyharmonic equations in the entire space] 90b:35061
 Oleinik, O. A. *see* Kondrat'ev, V. A., 90d:35079
 Polit-Gancarczyk, Elzbieta *see* Burs, Stanislaw, 90b:31018

31B35 Connections with differential equations

- Atakhodjaev, M. A. Nonuniqueness of the solution of an ill-posed problem for the biharmonic equation. 90m:31014
 Lindqvist, Peter On p -harmonic functions in the complex plane and curvature. 90d:31020
 Items with secondary classifications in 31B35
 Brown, Russell M. The method of layer potentials for the heat equation in Lipschitz cylinders. 90d:35118
 — The initial-Neumann problem for the heat equation in Lipschitz cylinders. 90b:35112
 Domar, Yagve Uniform boundedness in families related to subharmonic functions. 90d:31008
 Heinonen, Juha (with Kilpeläinen, Tero) Polar sets for supersolutions of degenerate elliptic equations. 90g:31007
 Kilpeläinen, Tero Potential theory for supersolutions of degenerate elliptic equations. 90c:35061
 — *see also* Heinonen, Juha, 90g:31007
 Landis, E. M. Positive harmonic functions. (Russian) 90c:35048

31B99 None of the above, but in this section

- Heinonen, Juha (with Kilpeläinen, Tero; Rossi, John) The growth of \mathcal{A} -subharmonic functions and quasiregular mappings along asymptotic paths. 90j:31003
 Kilpeläinen, Tero *see* Heinonen, Juha; et al., 90j:31003
 Muramatsu, Katsushi Harmonic Bloch and BMO functions on the unit ball in several variables. 90b:31006
 Rossi, John *see* Heinonen, Juha; et al., 90j:31003

Items with secondary classifications in 31B99

- Bedford, E. (with Taylor, B. A.) Uniqueness for the complex Monge-Ampère equation for functions of logarithmic growth. 90c:32025
 Davies, E. B. (with Rothe, O. S.) Markov semigroups on C^* -bundles. 90b:58217
 Nezhmetdinov, I. R. One-sided moduli of continuity and sharp estimates for harmonic functions in an annulus. (Russian) 90b:31001
 Rothe, O. S. *see* Davies, E. B., 90b:58217
 Taylor, B. A. *see* Bedford, E., 90c:32025

31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

- Chen, Wen Yi Log subharmonic functions and weighted Carleman inequalities. (Chinese. English summary) 90d:31021
 Hignat, Isao La balayabilité au sens fort des noyaux-fonctions continues du potentiel. [Strong balayability of continuous function-kernels of the potential] 90c:31014
 Kilpeläinen, Tero Polar sets in a nonlinear potential theory. 90d:31022
 Meyer, Michael Kurt Balayage spaces on topological sums. 90d:31023
 Möller, Hans-Helge Subordination for balayage spaces. 90c:31015
 Raskhodnikii, A. Yu. Integral representation of subharmonic functions of finite order in a cone. 90b:31019
 Rihhentaus, Juhani On a theorem of Avanissian-Arsove. 90d:31024
 Shaganov, Sh. D. Limit relations for partial derivatives of a wave potential of a simple layer and their applications. (Russian) 90b:31020
 Sjödin, Tord Nonlinear potential theory in Lebesgue spaces with mixed norm. 90d:31025
 Vodop'yanov, S. K. Potential theory on homogeneous groups. 90b:31010
 Items with secondary classifications in 31C05

- Aikawa, Hiroaki On weighted Beppo Levi function. 90c:46007

- Alexopoulos, Georges Quelques propriétés des fonctions harmoniques positives sur les groupes de Lie résolubles à croissance polynomiale du volume. (English summary) [Some properties of positive harmonic functions on solvable Lie groups of polynomial growth] 90c:22027
- Andrievskii, V. V. Some classes of harmonic functions with singularities on a quasiconformal arc. 90c:31006
- Conze, Jean-Pierre (with Raugi, Albert) Fonctions μ -harmoniques et méthodes probabilistes d'approximation. (English summary) [μ -harmonic functions and probabilistic methods of approximation] 90d:60011
- Garofalo, Nicola (with Lanconelli, Ermanno) Asymptotic behavior of fundamental solutions and potential theory of parabolic operators with variable coefficients. 90i:35040
- Grigor'yan, A. A. Stochastically complete manifolds and summable harmonic functions. 90a:58189
- Lanconelli, Ermanno see Garofalo, Nicola, 90i:35040
- Li, Am Gil (with Ma'tsev, V. M.) ★ Гармонические функции на группе $SU(n)$. (Russian) [Harmonic functions on the group $SU(n)$] 90g:22014
- Ma'tsev, V. M. see Li, Am Gil, 90g:22014
- Rangi, Albert see Conze, Jean-Pierre, 90d:60011
- Trenholme, Alice R. A Green's function for nonhomogeneous random walks on free products. 90d:60012

31C10 Pluriharmonic and plurisubharmonic functions [see also 32F05]

- Atakhodzhaev, M. A. (with Irgashev, M. Kh.) Zeros of periodic pluriharmonic functions in $2n$ -dimensional spaces. (Russian) 90k:31009
- Irgashev, M. Kh. see Atakhodzhaev, M. A., 90k:31009
- Items with secondary classifications in 31C10
- Agranovski, M. L. (with Aizenberg, L. A.) Reconstruction of holomorphic and pluriharmonic functions in circular domains from values on the torus. 90g:32019
- Aizenberg, L. A. see Agranovski, M. L., 90g:32019
- Bedford, E. (with Taylor, B. A.) Plurisubharmonic functions with logarithmic singularities. (French summary) 90f:32016
- (with Demailly, Jean-Pierre) Two counterexamples concerning the pluri-complex Green function in C^n . 90d:32033
- Demailly, Jean-Pierre see Bedford, E., 90d:32033
- Dzhrbashyan, A. E. (with Karapetyan, A. O.) Integral inequalities between conjugate pluriharmonic functions in multidimensional domains. 90e:30034
- Forness, J. E. (with Wiegnerinck, Jan) Approximation of plurisubharmonic functions. 90i:32026
- Graham, Carl (with Lee, John M.) Smooth solutions of degenerate Laplacians on strictly pseudoconvex domains. 90c:32031
- Karapetyan, A. O. see Dzhrbashyan, A. E., 90e:30034
- Kolodziej, S. The logarithmic capacity in C^n . 90f:32017
- Lee, John M. see Graham, Carl, 90c:32031
- Słodkowski, Zbigniew Pseudoconvex classes of functions. II. Affine pseudoconvex classes on R^n . 90m:32035
- Suzuki, Makoto The singular Dirichlet problem for the complex Monge-Ampère operator on complex manifolds. 90c:32025
- Taylor, B. A. see Bedford, E., 90d:32033
- Wiegnerinck, Jan see Forness, J. E., 90i:32026

31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

- Items with secondary classifications in 31C12
- Ballmann, Werner On the Dirichlet problem at infinity for manifolds of nonpositive curvature. 90j:53059

31C15 Potentials and capacities

- Heinonen, Juha (with Kilpeläinen, Tero) Polar sets for supersolutions of degenerate elliptic equations. 90g:31007
- Kilpeläinen, Tero see Heinonen, Juha, 90g:31007
- Vodop'yanov, S. K. Potential theory on homogeneous groups. 90b:31010
- Watanabe, Hisako Decomposition of a continuous function-kernel. 90i:31021
- Zoril, N. V. A problem of minimum energy for space condensers and Riesz kernels. 90c:31016

Items with secondary classifications in 31C15

- Feyel, Denis (with de La Pradelle, Arnaud) Étude de l'équation $\frac{1}{2}\Delta u - \mu u = 0$ où μ est une mesure positive. [Study of the equation $\frac{1}{2}\Delta u - \mu u = 0$, where μ is a positive measure] 90j:35074
- Kanda, Mamoru A remark on capacity measures for diffusion processes. 90f:60135
- Kolodziej, S. The logarithmic capacity in C^n . 90f:32017
- de La Pradelle, Arnaud see Feyel, Denis, 90j:35074
- Nogin, V. A. A method for the inversion and description of Bessel potentials with L_p -densities. (Russian) 90g:46055
- Overholt, Marius (with Schober, Glenn) Transfinite extent. 90m:30028
- Schober, Glenn see Overholt, Marius, 90m:30028
- Stoll, M. Rate of growth of p th means of invariant potentials in the unit ball of C^n . 90j:32037

31C20 Discrete potential theory and numerical methods

- Kayano, Takashi (with Yamasaki, Maretsugu) Discrete Dirichlet integral formula. 90c:31017

- Picardello, Massimo A. (with Woess, Wolfgang) A converse to the mean value property on homogeneous trees. 90c:31018
- Woess, Wolfgang see Picardello, Massimo A., 90c:31018
- Yamasaki, Maretsugu see Kayano, Takashi, 90c:31017

Items with secondary classifications in 31C20

- Kayano, Takashi (with Yamasaki, Maretsugu) The equation $\Delta u = qu$ on an infinite network. 90b:39011

31C25 Dirichlet spaces

Items with secondary classifications in 31C25

- Albeverio, S. (with Röckner, M.) Dirichlet forms, quantum fields and stochastic quantization. 90j:81097
- Kolsrud, Torbjörn Gaussian random fields, infinite-dimensional Ornstein-Uhlenbeck processes, and symmetric Markov processes. 90b:60044
- Röckner, M. see Albeverio, S., 90j:81097
- Saloff-Coste, Laurent Sur la décroissance des puissances de convolution sur les groupes. (English summary) [On the decay of convolution powers on groups] 90j:43005
- Wagenknecht, Niels Die zweite Randwertaufgabe der Potentialtheorie als duales Gegenstück zur ersten. [The second boundary value problem of potential theory as dual counterpart to the first one] 90h:31009

31C35 Martin boundary theory [see also 60J50]

- Nakai, Mitsuru (with Tada, Toshimasa) Nonmonotonicity of Picard dimensions. 90g:31008
- Comparison of Martin boundaries for Schrödinger operators. 90h:31011
- Tada, Toshimasa Martin compactifications of the punctured disk with close to rotation free densities. 90c:31019
- see also Nakai, Mitsuru, 90g:31008
- Items with secondary classifications in 31C35
- Cranston, M. (with Fabes, E. B.; Zhao, Zhong Xin) Conditional gauge and potential theory for the Schrödinger operator. 90a:60135
- Epstein, C. L. Positive harmonic functions on abelian covers. 90c:30074
- Fabes, E. B. see Cranston, M.; et al., 90a:60135
- Ikegami, Tetsuo Compactifications of harmonic spaces and Hunt processes. 90a:60133
- Picardello, Massimo A. (with Woess, Wolfgang) Harmonic functions and ends of graphs. 90b:60101
- (with Woess, Wolfgang) A converse to the mean value property on homogeneous trees. 90c:31018
- Woess, Wolfgang see Picardello, Massimo A., 90b:60101 and 90c:31018
- Zhao, Zhong Xin see Cranston, M.; et al., 90a:60135

31C99 None of the above, but in this section

- Kayano, Takashi (with Yamasaki, Maretsugu) Some properties of Royden boundary of an infinite network. 90m:31015
- Kilpeläinen, Tero The inclusion of $O_{HH} \subset O_{HD}$ for n -harmonic functions. (Polish summary) 90d:31026
- Martin, O. ★ Potential theoretic aspects of nonlinear elliptic partial differential equations. 90h:31012
- Okada, Masami Symbolic calculus applied to convex functions and associated diffusions. 90j:31004
- Yamasaki, Maretsugu see Kayano, Takashi, 90m:31015
- Items with secondary classifications in 31C99
- Heinonen, Juha (with Kilpeläinen, Tero; Rossi, John) The growth of \mathcal{A} -subharmonic functions and quasiregular mappings along asymptotic paths. 90j:31003
- Kilpeläinen, Tero see Heinonen, Juha; et al., 90j:31003
- Lehtola, Pasi Axiomatic potential theory associated with quasiconformal mappings. (Polish summary) 90d:31028
- Rossi, John see Heinonen, Juha; et al., 90j:31003
- Sugita, Hiroshi Positive generalized Wiener functions and potential theory over abstract Wiener spaces. 90c:60036
- Woess, Wolfgang Harmonic functions on infinite graphs. (Italian summary) 90c:60008

31D05 Axiomatic potential theory

- Ben Saad, Hedi (with Janssen, Klaus) A characterization of elementary potential theory. 90m:31016
- Bliedtner, Jürgen (with Hansen, Wolfhard) Approximation by continuous potentials. 90g:31009
- Boboc, N. (with Bucur, Gh.) Potentials in standard H -cones of functions. 90c:31020
- Bucur, Gh. see Boboc, N., 90c:31020
- Cornes, Aurel A characterization of the fine sheaf property. 90g:31010
- Eriksson-Bique, Sirkka-Liisa Hyperharmonic cones. 90c:31008
- Representations of hyperharmonic cones. 90a:31007
- Hansen, Wolfhard see Bliedtner, Jürgen, 90g:31009
- Hmissi, Mohamed Cones de potentiels stables par produit et systèmes semi-dynamiques. (English summary) [Potential cones stable by product and semidynamical systems] 90k:31010
- Ikegami, Tetsuo The Dirichlet problem on ends. 90f:31008
- On the boundary behavior of harmonic morphisms at the boundary of compactifications of Martin type. 90a:31008
- Janssen, Klaus see Ben Saad, Hedi, 90m:31016
- Keselman, D. G. Harnack inequality and some characteristics of nonregular points of simplexes. 90d:31027

Kröger, Paweł Harmonic spaces associated with parabolic and elliptic differential operators. 90h:31011

de La Pradelle, Arnaud Sur certaines perturbations de résolvantes. (English summary) [On some perturbations of resolvents] 90h:31022

Lehtola, Paul The obstacle problem in a nonlinear potential theory. 90h:31021
— Axiomatic potential theory associated with quasiconformal mappings. (Polish summary) 90h:31028

Maagli, Habib Perturbation and excessive functions. 90h:31009

Maeda, Fumi-Yuki Capacities on harmonic spaces with adjoint structure. 90h:31010
— Removability of polar sets for energy finite harmonic functions on harmonic spaces with adjoint structure. 90h:31017

Popa, Eugen Morphisms of Stonian cones. 90h:31029
— Morphisms of H -cones and specific order. 90h:31013

Popa, Liliana Dirichlet-finite harmonic functions on standard H -cones. I. (Romanian summary) 90h:31009

Wittmann, Rainer Green function and uniform Harnack inequality. 90h:31011

Wu, Jiong Qi Continuous functions on FO-sets in harmonic spaces. (Chinese. English summary) 90h:31014

Items with secondary classifications in 31D05

Bezne, Lucian Ultrapotentials and positive eigenfunctions for an absolutely continuous resolvent of kernels. 90d:60064

Kayano, Takashi (with Yamasaki, Maretsugu) Some properties of Royden boundary of an infinite network. 90h:31015

Watanabe, Hisako Decomposition of a continuous function-kernel. 90h:31021

Yamasaki, Maretsugu see Kayano, Takashi, 90h:31015

32-XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see also 46G20, 58B12.}

32-00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 32-00

Items listed otherwise than by author

Reviews in complex analysis ★ Reviews in complex analysis 1980-86. Vol. 1-4. 90h:00013

32-01 Elementary exposition; textbooks

(Akhiezer, D. N.) see Granert, Hans, 90h:32001

Candelas, P. Lectures on complex manifolds. 90h:32001

Grauert, Hans (with Remmert, R.) ★ Теория пространств Штейна. (Russian) [Theory of Stein spaces] 90h:32001

Hironaka, Heisuke (with Urabe, Toshio) ★ Kaiseki kukan nyumon. (Japanese) [Introduction to analytic spaces] 90h:32001

(Onishchik, A. L.) see Granert, Hans, 90h:32001

Remmert, R. see Grauert, Hans, 90h:32001

Urabe, Toshio see Hironaka, Heisuke, 90h:32001

Items with secondary classifications in 32-01

(McArthur, I. N.) see Schlichenmaier, Martin, 90h:32033

Schlichenmaier, Martin ★ An introduction to Riemann surfaces, algebraic curves and moduli spaces. 90h:32033

Yang, Kichoon ★ Compact Riemann surfaces and algebraic curves. 90h:14023

32-02 Advanced exposition (research surveys, monographs, etc.)

(Favre, S. Ya.) see Lelong, Pierre, 90h:32002

Gruen, L. see Lelong, Pierre, 90h:32002

Guaraldo, Francesco (with Macri, Patrizia; Tancredi, Alessandro) ★ Topics on real analytic spaces. 90h:32001

Khenkin, G. M. (with Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. 90h:32002a

— (with Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. 90h:32002b

Leiterer, Jürgen see Khenkin, G. M., 90h:32002a and 90h:32002b

Lelong, Pierre (with Gruen, L.) ★ Целые функции многих комплексных переменных. (Russian) [Entire functions of several complex variables] 90h:32002

Macri, Patrizia see Guaraldo, Francesco; et al., 90h:32001

(Ronkin, L. I.) see Lelong, Pierre, 90h:32002

(Rusakovskii, A. M.) see Lelong, Pierre, 90h:32002

Tancredi, Alessandro see Guaraldo, Francesco; et al., 90h:32001

Items with secondary classifications in 32-02

Bierstone, Edward (with Milman, Pierre D.) ★ The local geometry of analytic mappings. 90h:32011

(Magnus, Wilhelm) see Siegel, C. L., 90h:30002 and 90h:30003

Milman, Pierre D. see Bierstone, Edward, 90h:32011

Salomon, Simon ★ Riemannian geometry and holonomy groups. 90h:53058

(Shenitzer, A.) see Siegel, C. L., 90h:30002 and 90h:30003

Siegel, C. L. ★ Topics in complex function theory. Vol. I. 90h:30002

— ★ Topics in complex function theory. Vol. II. 90h:30003

(Solitar, D.) see Siegel, C. L., 90h:30002

Talenti, Geraldine ★ Cauchy-Riemann (CR) manifolds. 90h:32047

(Tretkoff, M.) see Siegel, C. L., 90h:30003

32-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 32-03

Kleiman, Steven The development of intersection homology theory. 90m:01045

32-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 32-04

Cucker, Felipe (with Pardo, L. M.; Raimondo, M.; Recio Muñoz, Tomás J.; Roy, M.-F.) On the computation of the local and global analytic branches of a real algebraic curve. 90h:14020

Gerd, V. P. (with Kostov, N. A.; Kostova, Z. T.) Computer algebra and computation of Puiseux expansions of algebraic functions. 90m:14023

Kostov, N. A. see Gerd, V. P.; et al., 90m:14023

Kostova, Z. T. see Gerd, V. P.; et al., 90m:14023

Pardo, L. M. see Cucker, Felipe; et al., 90h:14020

Raimondo, M. see Cucker, Felipe; et al., 90h:14020

Recio Muñoz, Tomás J. see Cucker, Felipe; et al., 90h:14020

Roy, M.-F. see Cucker, Felipe; et al., 90h:14020

32-06 Proceedings, conferences, etc.

(Dolbeault, Pierre) see Seminar: Lelong-Dolbeault-Skoda, Analysis, 90m:32002

(Galbiati, Margherita) see Real analytic and algebraic geometry, 90h:32001

(Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 90m:32001

(Gauthier, Paul M.) see Several complex variables, 90h:32003

(Gindikis, S. G.) see Several complex variables, 90h:32002

(Khenkin, G. M.) see Several complex variables, 90h:32002

(Kwak, Do Y.) see Analysis and geometry, 90h:32001

(Lee, Sungyun) see Analysis and geometry, 90h:32001

(Leitner, Jürgen) see Several complex variables, 90h:32002

(Lelong, Pierre) see Seminar: Lelong-Dolbeault-Skoda, Analysis, 90m:32002

(Numemacher, Jeffrey) see Several complex variables, 90h:32002

(Randell, R.) see Singularities, 90h:32002

(Skoda, H.) see Seminar: Lelong-Dolbeault-Skoda, Analysis, 90m:32002

(Tognoli, A.) see Real analytic and algebraic geometry, 90h:32001

(Vitushkin, A. G.) see Several complex variables, 90h:32003

Items listed otherwise than by author

Analysis and geometry ★ Analysis and geometry 1987. 90h:32001

Colloquium:

Hodge Theory ★ Actes du Colloque de Théorie de Hodge. [Proceedings of the Colloquium on Hodge Theory] 90h:32002

Complex analysis and mathematical physics ★ Комплексный анализ и математическая физика. (Russian) [Complex analysis and mathematical physics] 90h:32003

Conference:

Real Analytic and Algebraic Geometry ★ Real analytic and algebraic geometry. 90h:32001

Singularities ★ Singularities. 90h:32002

Contemporary Mathematics ★ Singularities. 90h:32002

Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 54. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 54] 90m:32001

Encyclopaedia of Mathematical Sciences ★ Several complex variables. I. 90h:32003

— ★ Several complex variables. IV. 90h:32002

Geometry of moduli spaces and 4-dimensional manifolds ★ Moduli kukan noki nan to 4 jikan tayotai. II. (Japanese) [Geometry of moduli spaces and 4-dimensional manifolds. II] 90h:32001

Iowa City, IA ★ Singularities. 90h:32002

Itoji Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 54. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 54] 90m:32001

Krasnoyarsk ★ Комплексный анализ и математическая физика. (Russian) [Complex analysis and mathematical physics] 90h:32003

Lecture Notes in Mathematics ★ Séminaire d'Analyse P. Lelong-P. Dolbeault-H. Skoda. Année 1985/1986. (French) [P. Lelong-P. Dolbeault-H. Skoda Seminar on Analysis. 1985/1986] 90h:32002

— ★ Real analytic and algebraic geometry. 90h:32001

Lamlay ★ Actes du Colloque de Théorie de Hodge. [Proceedings of the Colloquium on Hodge Theory] 90h:32002

Proceedings:

Colloquium on Hodge Theory ★ Actes du Colloque de Théorie de Hodge. [Proceedings of the Colloquium on Hodge Theory] 90h:32002

Real analytic and algebraic geometry ★ Real analytic and algebraic geometry. 90h:32001

School-Seminar:

Complex Analysis and Mathematical Physics ★ Комплексный анализ и математическая физика. (Russian) [Complex analysis and mathematical physics] 90h:32003

Seminar:

Geometry of Moduli Spaces and 4-Dimensional Manifolds ★ Moduli kukan noki nan to 4 jikan tayotai. II. (Japanese) [Geometry of moduli spaces and 4-dimensional manifolds. II] 90h:32001

Seminar: (cont'd.)

Lelong-Dolbeault-Skoda, Analysis ★ Séminaire d'Analyse P. Lelong-P. Dolbeault-H. Skoda. Années 1985/1986. (French) [P. Lelong-P. Dolbeault-H. Skoda Seminar on Analysis. 1985/1986] 90m:32002

Several complex variables ★ Several complex variables. I. 90j:32003

— ★ Several complex variables. IV. 90k:32002

Singularities ★ Singularities. 90a:32002

Tacón ★ Analysis and geometry 1987. 90f:32001

Trento ★ Real analytic and algebraic geometry. 90k:32001

Workshop:

Analysis and Geometry ★ Analysis and geometry 1987. 90f:32001

Items with secondary classifications in 32-06

(Adnadjević, Dušan) see Symposium: Complex Analysis and Applications, 90j:30001

(Vesentini, Edoardo) see Complex geometry and analysis, 90m:00034

(Viliani, V.) see Complex geometry and analysis, 90m:00034

Items listed otherwise than by author

Complex geometry and analysis ★ Complex geometry and analysis. 90m:00034

Herceg Novi ★ Third International Symposium on Complex Analysis and Applications. 90j:30001

Lecture Notes in Mathematics ★ Complex geometry and analysis. 90m:00034

Pisa ★ Complex geometry and analysis. 90m:00034

Several aspects of algebraic analysis ★ Daisui kaiseigaku no shosho. (Japanese) [Several aspects of algebraic analysis] 90b:58002

Symposium:

Complex Analysis and Applications ★ Third International Symposium on Complex Analysis and Applications. 90j:30001

Complex Geometry and Analysis ★ Complex geometry and analysis. 90m:00034

Several Aspects of Algebraic Analysis ★ Daisui kaiseigaku no shosho. (Japanese) [Several aspects of algebraic analysis] 90b:58002

32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Choi, U Jin see Kwak, Do Y., 90j:32005

Daoud, Suzanne On the class of integral functions represented by Dirichlet series of several complex variables having finite growth. 90j:32003

Grechanyuk, N. I. Behavior of the maximum term of a multiple Dirichlet series that represents an entire function. 90j:32004

Ibragimov, G. I. Absolute convergence of multiple series of exponentials that represent functions that are analytic in a multipolygon. (Russian. English and Azerbaijani summaries) 90m:32003

— Convergence of a double Dirichlet series in a product of closed polygons. 90b:32001

Kwak, Do Y. (with Choi, U Jin) Exponentiation of holomorphic functions. 90j:32005

Lê Hai Khôi On representing systems for functions of several variables. 90a:32003

Leinartas, E. K. The Hadamard multidimensional composition and sums with linear constraints on summation indices. 90f:32002

Items with secondary classifications in 32A05

Cucker, Felipe (with Gonzalez Corbalan, Antonio) An alternate proof of the continuity of the roots of a polynomial. 90b:12003

Elin, M. M. Generalization of the Hurwitz composition. 90c:32021

Gonzalez Corbalan, Antonio see Cucker, Felipe, 90b:12003

Juneja, O. P. (with Sinha, Amritasu Kumar) On the coefficients of entire series of several complex variables. 90c:32003

Lê Hai Khôi Espaces conjugués ensembles faiblement suffisants discrets et systèmes de représentation exponentielle. (Adjoint spaces, discrete weakly sufficient sets and systems of exponential representation) 90k:46050

Salimov, F. G. The mean square value of entire functions that are represented by multiple Dirichlet series. (Russian. English and Azerbaijani summaries) 90b:30069

Sinha, Amritasu Kumar On the growth of a class of plurisubharmonic functions in a unit disc. 90k:32056

— see also Juneja, O. P., 90c:32003

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

Barrett, D. E. (with Bedford, E.; Dadok, Jiri) T^n -actions on holomorphically separable complex manifolds. 90k:32003

Bedford, E. see Barrett, D. E.; et al., 90k:32003

Dadok, Jiri see Barrett, D. E.; et al., 90k:32003

Nikitina, T. N. An analogue of Carleman's formula in the future tube. 90c:32001

Yin, Wei Ping New phenomena on bounded nonhomogeneous domains. 90f:32003

Items with secondary classifications in 32A07

Abdurakhmanov, R. Some classes of holomorphic functions. (Russian. Tajiki summary) 90c:32005

Agranovskii, M. L. Möbius spaces of functions on the Shilov boundaries of classical domains of tube type. 90c:32048

— (with Aizenberg, L. A.) Reconstruction of holomorphic and pluriharmonic functions in circular domains from values on the torus. 90g:32019

Aizenberg, L. A. see Agranovskii, M. L., 90g:32019

Boas, Harold P. (with Straube, Emil J.) Complete Hartogs domains in C^2 have regular Bergman and Szegő projections. 90b:32052

Burba, J. Functional Banach spaces of holomorphic functions on Reinhardt domains. 90f:46043

Carmichael, Richard D. Distributional and L^2 boundary values on the topological boundary of tubes. 90b:46075

Dini, Gilberto (with Primicerio, Angela Selvaggi) Proper holomorphic maps between Reinhardt domains and strictly pseudoconvex domains. 90f:32036

Faraut, J. (with Korányi, A.) Fonctions hypergéométriques associées aux cônes symétriques. (English summary) [Hypergeometric functions associated with symmetric cones] 90a:22010

Fornæss, J. E. (with Wiegnerinck, Jan) Approximation of plurisubharmonic functions. 90i:32026

Geatti, Laura Holomorphic automorphisms of the tube domain over the Vinberg cone. (Italian summary) 90b:32060

Isaev, A. V. Classification of spherical tube hypersurfaces that have two minuses in the Levi signature form. 90m:32042

— (with Mishchenko, M. A.) Classification of spherical tube hypersurfaces that have one minus in the Levi signature form. 90b:32047

Kazaryan, M. V. Holomorphic continuation of functions with pluripolar singularities. (Russian. Armenian summary) 90g:32016

Korányi, A. see Faraut, J., 90a:22010

Mishchenko, M. A. see Isaev, A. V., 90b:32047

Pathak, R. S. (with Paul, A. C.) Distributional boundary values in $(S^n)^\gamma$ -spaces of functions analytic in tubular radial domains. 90d:46066

— (with Paul, A. C.) Distributional boundary values in $(W)^\gamma$ -spaces of functions holomorphic in tube domains. 90m:46073

Patrizio, Giorgio On the convexity of the Kobayashi indicatrix. 90c:32036

Paul, A. C. see Pathak, R. S., 90d:46066 and 90m:46073

Primicerio, Angela Selvaggi see Dini, Gilberto, 90f:32036

Salinas, Norberto (with Sheu, Albert Jeu-Liang; Upmeyer, Harald) Toeplitz C^* -algebras over pseudoconvex Reinhardt domains. 90f:47036

Sergeev, A. G. The Lindelöf theorem, and pseudoconvex neighborhoods for the future tube. (Russian) 90c:32009

Sharonov, S. E. Classification of groups of biholomorphic automorphisms of analytic polyhedra. 90b:32061

Sheu, Albert Jeu-Liang see Salinas, Norberto; et al., 90f:47036

Straube, Emil J. Interpolation between Sobolev and between Lipschitz spaces of analytic functions on starshaped domains. 90c:46036

— see also Boas, Harold P., 90b:32052

Upmeyer, Harald see Salinas, Norberto; et al., 90f:47036

Wiegnerinck, Jan see Fornæss, J. E., 90i:32026

Xu, Yi Chao On the classification of the homogeneous bounded domains. 90i:32044

Yin, Wei Ping Invariant metrics and invariant functions on the Reinhardt domains. 90j:32073

Zav'yalov, B. I. Asymptotic properties of functions that are holomorphic in tubular cones. 90b:32015

Znamenskii, S. V. Strong linear convexity. II. Existence of holomorphic solutions of linear systems of equations. 90c:32001

32A10 Holomorphic functions

Arai, Hitoshi Estimates of harmonic measures associated with degenerate Laplacian on strictly pseudoconvex domains. 90m:32004

Dobrushin, P. V. On the Lindelöf theorem in C^n . 90b:32002

Jevtić, Miroslav Projection theorems, fractional derivatives and inclusion theorems for mixed-norm spaces on the ball. 90d:32001

Kaimanovich, V. A. Harmonic and holomorphic functions on coverings of complex manifolds. (Russian) 90m:32005

Khudaiberganov, G. The Carathéodory-Fejér problem in the generalized unit disk. 90k:32004

Kishka, Z. M. G. Exponential set of polynomials of two complex variables. 90d:32002

Kubota, Yoshihisa A note on bounded holomorphic functions on bounded homogeneous domains. 90b:32003

Liczberski, Piotr Jack's lemma for holomorphic mappings in C^n . (Russian and Polish summaries) 90a:32004

Manzini, F. Holomorphic functions as Radon-Nikodým measure derivatives. (Italian. English summary) 90b:32004

McDonald, John N. An extreme absolutely continuous RP-measure. 90k:32005

McKennon, Kelly The uniqueness theorem in complex analysis: a constructive approach. 90b:32005

Foreda, Tadeusz On some topological properties of the class of normalized and starlike maps of the unit polydisk in C^n . (Polish summary) 90d:32003

Sirák, V. I. A theorem on the holomorphy of continuous mappings. 90b:32006

Solomentsev, E. D. Some classes of holomorphic functions. (Russian) (see 90d:00020)

Tamrazov, P. M. Multidimensional contour-solid theorems. 90d:32004

Znamenskii, S. V. Strong linear convexity. II. Existence of holomorphic solutions of linear systems of equations. 90c:32001

Items with secondary classifications in 32A10

Andersson, Mats The corona theorem for matrices. 90g:30036

Galindo, Pablo (with García, Domingo; Maestre, Manuel) The Hartogs theorem and holomorphic classification. (Spanish. English summary) 90a:46112

García, Domingo Countable sets of holomorphic mappings. 90c:46057

— see also Galindo, Pablo; et al., 90a:46112

Globevnik, J. A holomorphic function whose level sets have infinite area. 90i:32015

Gong, Sheng (with Zheng, Xue An) Deviation theorems for doubly holomorphic mappings on homogeneous domains. I. (Chinese) (Not in MR)

Kazaryan, M. V. On the "edge of the wedge" theorem for meromorphic functions. (Russian. Armenian summary) 90b:32027

Leinartas, E. K. The Hadamard multidimensional composition and sums with linear constraints on summation indices. 90f:32002

Liczberski, Piotr On Bavin's families of holomorphic maps of Banach spaces into the complex plane. (Russian and Polish summaries) 90g:32004

- Madi, Nour Said (with Yoshino, Masafumi) Unique solvability of nonlinear Fuchsian equations. 90j:35062
- Maestre, Manuel see Galindo, Pablo; et al., 90a:46112
- Pathak, R. S. (with Paul, A. C.) Distributional boundary values in $(S^n)'$ -spaces of functions analytic in tubular radial domains. 90d:46066
- Paul, A. C. see Pathak, R. S., 90d:46066
- Stoll, M. Rate of growth of p th means of invariant potentials in the unit ball of C^n . 90j:32037
- Yoshino, Masafumi see Madi, Nour Said, 90j:35062
- Zheng, Xue An see Gong, Sheng, (Not in MR)
- Znamenskii, S. V. The existence of holomorphic primitives in all directions. 90c:32019

32A15 Entire functions

- Avanissian, Vazgen Sur le L -type du prolongement holomorphe des fonctions harmoniques entières. (English summary) [On the L -type of the complexification of entire harmonic functions] 90c:32002
- Dobinski, Yu. A. Well-posedness of the Cauchy problem in classes of entire functions of finite order. 90c:32002
- Ghadeyan, J. A. see Opolo, T. O., 90m:32007
- Gencher, T. G. A weighted version of the Paley-Wiener theorem. 90b:32004
- Gil'mutdinov, R. Z. Expansion of entire functions of several complex variables in quasi-power bases. (Russian) (see 90d:41001)
- Henson, C. Ward (with Rubel, Lee A.; Singer, Michael F.) Algebraic properties of the ring of general exponential polynomials. 90m:32006
- Ibragimov, G. I. Bases of exponentials in the space $E^2(D^n)$ on a multipolygon, and properties of coefficients of expansions. (Russian. English and Azerbaijani summaries) 90d:32005
- Ishimura, Ryuichi Endomorphismes de l'espace des germes de fonctions holomorphes en un point et opérateurs différentiels d'ordre infini. (English summary) [Endomorphisms of the space of germs of functions holomorphic at a point and differential operators of infinite order] 90i:32004
- Jameja, O. P. (with Sinha, Amritasu Kumar) On the coefficients of entire series of several complex variables. 90c:32003
- Krishna, J. Gopala (with Rao, I. H. Nagaraja) On coefficient expressions and optimal relations among sum [some] lower growth concepts associated with an entire power series on C^n . 90b:32007
- Logvinenko, V. N. Conditions of boundedness and conditions of slow growth along a real hyperplane of entire functions of exponential type. 90c:32003
- Opolo, T. O. (with Ghadeyan, J. A.) On some properties of entire functions of several complex variables of regular growth. 90m:32007
- Pupenov, S. V. A class of weighted spaces of entire functions. (Russian) (see 90d:41001)
- Rahman, Md. Muklesur On order and type of entire functions over C^2 . 90m:32008
- The Goldberg order and Goldberg type of entire Dirichlet series in several complex variables. 90d:32006
- On the algebraic structures of a class of entire multiple Dirichlet series in several complex variables. 90m:32009
- Rao, I. H. Nagaraja see Krishna, J. Gopala, 90b:32007
- Rubel, Lee A. see Henson, C. Ward; et al., 90m:32006
- Russakovskii, A. M. On continuation with estimates from analytic sets of codimension 1. (Russian) 90b:32006
- Schumitzky, Alan A probabilistic approach to the Wiman-Valiron theory for entire functions of several complex variables. 90c:32007
- Sekerin, A. B. Sufficient sets in spaces of entire functions of several variables. 90f:32004
- Singer, Michael F. see Henson, C. Ward; et al., 90m:32006
- Sinha, Amritasu Kumar see Jameja, O. P., 90c:32003
- Stein, Yusef On the density of image of differential operators generated by polynomials. 90c:32004b
- On linear differential operators related to the Jacobian conjecture. 90c:32004a

Items with secondary classifications in 32A15

- Aizenberg, L. A. (with Khudaiberganov, G.) Multiple extrapolation of holomorphic functions from matrices and functions that are holomorphic in the product of half-planes. 90b:32010
- Aoki, Takashi Existence and continuation of holomorphic solutions of differential equations of infinite order. 90c:35007
- Aytuna, A. (with Krone, Jörg; Terzioğlu, T.) Complemented infinite type power series subspaces of nuclear Fréchet spaces. 90a:46014
- Bazylewicz, A. Critère de reconnaissabilité de fonctions analytiques et fonctions entières arithmétiques. [Recognizability criterion for analytic functions and arithmetical entire functions] 90b:30030
- Berenstein, Carlos A. (with Struppa, Daniele C.) Dirichlet series and convolution equations. 90d:30008
- Besada, Manuel (with Estévez, Margarita; Hervés, Carlos) Some results on entire functions with weak continuity properties in Banach spaces. (Spanish. English summary) 90c:46035
- Chan, Kit Chak Common cyclic entire functions for partial differential operators. 90j:47064
- Chan-Pan Les systèmes de représentation absolue dans les espaces des fonctions holomorphes. [Systems of absolute representation in holomorphic function spaces] 90m:46036
- Ensembles suffisants pour quelques espaces de fonctions. [Sufficient sets for some function spaces] 90m:46037
- Estévez, Margarita see Besada, Manuel; et al., 90c:46035
- (Favore, S. Yu.) see Lelong, Pierre, 90c:32002
- Frih, El Mostapha (with Gauthier, Paul M.) Approximation of a function and its derivatives by entire functions of several variables. 90c:30038
- Gauthier, Paul M. see Frih, El Mostapha, 90c:30038
- Gruman, L. see Lelong, Pierre, 90i:32002
- Hervés, Carlos see Besada, Manuel; et al., 90c:46035
- Khudaiberganov, G. see Aizenberg, L. A., 90b:32010

- Kishka, Z. M. G. On the transposed set of two complex variables. 90a:41005
- Krone, Jörg see Aytuna, A.; et al., 90a:46014
- Lé Hai Khôi On representing systems for functions of several variables. 90a:32003
- Espaces conjugués ensembles faiblement suffisants discrets et systèmes de représentation exponentielle. [Adjoint spaces, discrete weakly sufficient sets and systems of exponential representation] 90k:46050
- Lelong, Pierre (with Gruman, L.) ★ Целые функции многих комплексных переменных. (Russian) [Entire functions of several complex variables] 90i:32002
- Meise, Reinhold (with Taylor, B. A.) A decomposition lemma for entire functions and its applications to spaces of ultradifferentiable functions. 90c:46075
- Morimoto, Mitsuo (with Wada, Ryoko) Analytic functionals on the complex light cone and their Fourier-Borel transformations. 90d:32012
- Nguyen Thanh Van Bases polynomiales et approximation des fonctions séparément harmoniques dans C^n . (English summary) [Polynomial bases and approximation of separately harmonic functions in C^n] 90k:31008
- Ortaçgil, Erçilment A relation between radial indicators and order functions. (Turkish summary) 90k:32008
- Passare, Mikael Residues, currents, and their relation to ideals of holomorphic functions. 90d:32019
- Petunin, Yu. I. (with Savkin, V. I.) Convergence that is generated by analytic functionals, and an isomorphism of algebras of analytic functions. 90c:46065
- (Ronkin, L. I.) see Lelong, Pierre, 90i:32002
- Rudol, K. Atomic-type decompositions in the Segal-Bargmann space. 90a:46060
- (Russakovskii, A. M.) see Lelong, Pierre, 90i:32002
- Savkin, V. I. see Petunin, Yu. I., 90c:46065
- Struppa, Daniele C. see Berenstein, Carlos A., 90d:30008
- Taylor, B. A. see Meise, Reinhold, 90c:46075
- Terzioğlu, T. see Aytuna, A.; et al., 90a:46014
- Timoney, Richard M. Weak*-continuity of Jordan triple products and applications. 90c:46179
- Wada, Ryoko see Morimoto, Mitsuo, 90d:32012
- Wolter, Jürgen Complementation of principal ideals in weighted (FN)-algebras of entire functions. 90d:46081
- Znamenskii, S. V. Strong linear convexity. II. Existence of holomorphic solutions of linear systems of equations. 90c:32001

32A17 Normal families

Items with secondary classifications in 32A17

- Takayama, Nobuki Holonomic solution of Weisner's operator. 90m:35009
- Voisin, Claire Une remarque sur l'invariant infinitésimal des fonctions normales. (English summary) [A remark on the infinitesimal invariant of normal functions] 90b:14007

32A20 Meromorphic functions

- Malgrange, Bernard Sur le théorème de Maillet. [On the theorem of Maillet] 90f:32005
- Meziani, A. Topological rationalization of a class of meromorphic functions. 90m:32010
- Items with secondary classifications in 32A20
- Gramsch, Bernhard (with Kabbalo, Winfried) Decompositions of meromorphic Fredholm resolvents and \mathcal{P}^* -algebras. 90d:47016
- Kabbalo, Winfried see Gramsch, Bernhard, 90d:47016
- Zaidenberg, M. G. Transcendental solutions of Diophantine equations. 90c:11112

32A22 Nevanlinna theory: growth estimates {For geometric theory, see 32H25, 32H30.}

- Dektyarev, I. M. Averaged defects of holomorphic curves and divisors with an excess defect value. 90b:32008
- Ortaçgil, Erçilment A relation between radial indicators and order functions. (Turkish summary) 90k:32008
- Polyakov, P. L. Zeros of holomorphic functions of finite order in a polydisk. 90g:32002
- Zeriahi, Ahmed Ensembles pluripolaires exceptionnels pour la croissance partielle des fonctions holomorphes. [Exceptional pluripolar sets for the partial growth of holomorphic functions] 90i:32005

Items with secondary classifications in 32A22

- Rahman, Md. Muklesur On order and type of entire functions over C^2 . 90m:32008

32A25 Integral representation

- Abdurakmanov, R. Some classes of holomorphic functions. (Russian. Tajiki summary) 90a:32005
- Amar, Éric Estimées Lipschitz dans les domaines convexes de type fini de C^n . (English summary) [Lipschitz estimates in convex domains of finite type in C^n] 90k:32009
- Beauzamy, F. (with Burbea, J.) Holomorphic Sobolev spaces on the ball. 90k:32010
- Bernardsson, Bo (with Passare, Mikael) Integral formulas and an explicit version of the fundamental principle. 90i:32006
- Burbea, J. see Beauzamy, F., 90k:32010
- Chen, Shu Jin Integral representations of continuously differentiable functions of several complex variables and their applications. (Chinese. English summary) 90a:32006
- Local extension of the integral representation of a holomorphic function on a convex domain in C^n . (Chinese. English summary) 90b:32005
- Note on integral representation of holomorphic functions in several complex variables. 90i:32011
- Chen, So-Chin Real analytic boundary regularity of the Cauchy kernel on convex domains. 90k:32012
- Choe, Boo Rim Projections, the weighted Bergman spaces, and the Bloch space. 90b:32009

- Khenkin, G. M. (with Polyakov, P. L.) Residue integral formulas and the Radon transform for differential forms on q -linearly concave domains. 90b:32013
- Kytmanov, A. M. (with Nikitina, T. N.) Analogues of the Carleman formula for classical domains. (Russian) 90c:32004
- Li, Hui Ping Integral representation of the canonical solution of the $\bar{\partial}$ -equation. (Chinese) 90m:32011
- Lia, Liang Yu Transformation formulas for Cauchy integrals of functions of several complex variables at angular points. (Chinese. English summary) 90c:32005
- Milovanov, V. F. Properties of a class of integrals in the space C^2 . (Russian) (see 90d:00046)
- Nikitina, T. N. see Kytmanov, A. M., 90c:32004
- Passare, Mikael see Berndtsson, Bo, 90c:32006
- Perotti, Alessandro The equation $\bar{\partial}u = f$ on the intersection of pseudoconvex domains. (Italian summary) 90b:32006
- Polyakov, P. L. see Khenkin, G. M., 90b:32013
- Prenov, B. B. (with Tarkhanov, N. N.) A remark on the jump of the Martinelli-Bochner integral for domains with a piecewise smooth boundary. 90b:32010
- Sekerin, A. B. Integral representation of subharmonic functions. (Russian) (see 90d:41001)
- An integral representation of plurisubharmonic functions. (Russian) 90a:32007
- Shatalov, V. E. see Sternin, B. Yu., 90b:32014
- Sternin, B. Yu. (with Shatalov, V. E.) A new class of integral representations in complex analysis. (Russian) 90b:32014
- Tarkhanov, N. N. see Prenov, B. B., 90b:32010
- Trèves, F. Homotopy formulas in the tangential Cauchy-Riemann complex. 90m:32012
- Yao, Zong Yuan On the Bochner-Ono formula. (Chinese. English summary) 90b:32007
- On an integral representation on an analytic polyhedron in C^n . (Chinese. English summary) 90b:32008
- Items with secondary classifications in 32A25
- Abdurakhmanov, R. Some classes of holomorphic functions. II. (Russian. Tajiki summary) 90f:46076
- Adachi, Kenzō Extending H^p functions from subvarieties to real ellipsoids. 90d:32008
- Agranovskii, M. L. (with Aizenberg, L. A.) Reconstruction of holomorphic and plurisubharmonic functions in circular domains from values on the torus. 90g:32019
- Aizenberg, L. A. see Agranovskii, M. L., 90g:32019
- Andersson, Mats Values in the interior of the L^2 -minimal solutions of the $\bar{\partial}$ -equation in the unit ball of C^n . 90c:32028
- Aomoto, K. Special value of the hypergeometric function ${}_3F_2$ and connection formulae among asymptotic expansions. 90f:33001
- On the complex Selberg integral. 90m:58244
- Bros, J. (with Omnes, Roland) Holomorphic integral representations for outgoing-waves in R^n . 90f:35045
- Cheng, Jin² see Li, Ming Zhong, 90c:35058
- (Egorychev, G. P.) see Xu, Li Zhi, 90d:05017
- Jakóbczak, Piotr Boundary regularity of the solution of the $\bar{\partial}$ -equation in the polydisc. 90f:32019
- Jiang, Mao Sen see Xu, Li Zhi, 90d:05017
- Khenkin, G. M. (with Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. 90b:32002a
- (with Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. 90b:32002b
- (with Polyakov, P. L.) The Grothendieck-Dolbeault lemma for complete intersections. (French summary) 90f:32007
- Laurent-Thiébaud, Christine (with Leiterer, Jürgen) On the Hartogs-Bochner extension phenomenon for differential forms. 90c:32026
- Leiterer, Jürgen see Laurent-Thiébaud, Christine, 90c:32026; Khenkin, G. M., 90b:32002a and 90b:32002b
- Li, Ming Zhong (with Cheng, Jin²) Riemann-Hilbert problems for overdetermined elliptic systems with several unknown functions of several complex variables. (Chinese) 90c:35058
- McDonald, John N. An extreme absolutely continuous RP-measure. 90b:32005
- Nishimoto, Katsuyuki Fractional calculus of some elementary functions of two variables. 90d:26013
- Omnes, Roland see Bros, J., 90f:35045
- Parrini, Carla Hölder estimates for $\bar{\partial}$ in some finite preimages of strictly pseudoconvex domains. (French summary) 90c:32018
- Pastro, Pier I. On the integral representation of F_4 of Appell and its Lauricella generalization. 90c:33018
- Polyakov, P. L. see Khenkin, G. M., 90b:32007
- Ryan, John Dirac operators, Schrödinger type operators in C^n , and Huygens principle. 90i:58261
- Schmalz, Gerd Solution of the $\bar{\partial}$ -equation with uniform estimates on strictly q -convex domains with nonsmooth boundary. 90b:32062
- Tajima, Shinichi $\bar{\partial}_b$ -cohomology and the Bochner-Martinelli kernel. 90b:32023
- Microlocal analyses of integral representation formulas for domains of type $\text{Re } z_1 + |z_2|^2 < 0$. (Italian. English summary) 90c:32029
- Tsikh, A. K. ★ Многомерные вычеты и их применения. (Russian) [Higher-dimensional residues and their applications] 90c:32006
- Wegner, Bernd A differential geometric proof of the local geometric characterization of spheres and cylinders by Boas. 90b:53004
- Xu, Li Zhi (with Jiang, Mao Sen) Comment on G. P. Egorychev's book *Integral representation and the computation of combinatorial sums* ["Nauka" Sibirsk. Otdel., Novosibirsk, 1977; MR 58 #10474]. (Chinese summary) 90d:05017
- Znamenskaya, L. N. Multidimensional analogues of the F. and M. Riesz theorem and Carleman's formula. (Russian) 90m:32016
- 32A27 Local theory of residues [see also 32C30]
- Aizenberg, L. A. (with Prenov, B. B.) Application of a multidimensional logarithmic residue to Poisson's summation formula. (Russian) 90g:32003
- Berenstein, Carlos A. (with Yger, Alain) Calcul de résidus et problèmes de division. (English summary) [Residue calculus and division problems] 90d:32007
- (with Gay, Roger; Yger, Alain) Analytic continuation of currents and division problems. (French summary) 90f:32006
- Gay, Roger see Berenstein, Carlos A.; et al., 90f:32006
- Khenkin, G. M. (with Polyakov, P. L.) The Grothendieck-Dolbeault lemma for complete intersections. (French summary) 90f:32007
- Polyakov, P. L. see Khenkin, G. M., 90f:32007
- Prenov, B. B. see Aizenberg, L. A., 90g:32003
- Shatalov, V. E. see Sternin, B. Yu., 90b:32006
- Sternin, B. Yu. (with Shatalov, V. E.) On the theory of Leray residues. (Russian) 90j:32006
- Tsikh, A. K. ★ Многомерные вычеты и их применения. (Russian) [Higher-dimensional residues and their applications] 90c:32006
- Yger, Alain see Berenstein, Carlos A., 90d:32007 and 90f:32006
- Yuzhakov, A. P. The separating subgroup and local residues. 90b:32009
- Items with secondary classifications in 32A27
- Dolbeault, Pierre Sur la structure des courants résiduels. [On the structure of residual currents] 90c:32015
- Höhl, Reinhold On the transitivity of regular differential forms. 90f:14010
- Khenkin, G. M. (with Polyakov, P. L.) Residue integral formulas and the Radon transform for differential forms on q -linearly concave domains. 90b:32013
- Passare, Mikael A calculus for meromorphic currents. 90d:32020
- Residues, currents, and their relation to ideals of holomorphic functions. 90d:32019
- Polyakov, P. L. see Khenkin, G. M., 90b:32013
- Skarke, Harald On the uniqueness of prescriptions for spurious poles in Feynman integrals. 90g:81053
- Tsikh, A. K. Integrals of rational functions over the space R^n . 90b:32036
- 32A30 Other generalizations of function theory of one complex variable (should also be assigned to at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}
- Inenaga, Yoshikazu see Nono, Kiyoharu, 90b:32015
- Jurcescu, Martin On a lemma of Koszul-Malgrange. 90c:32005
- Liczberski, Piotr On Bavin's families of holomorphic maps of Banach spaces into the complex plane. (Russian and Polish summaries) 90g:32004
- Mikhailov, L. G. Generalized analytic functions of several variables. (Russian) 90a:32008
- Mukhtarov, A. Sh. On the growth and on the best approximation of an analytic function in a bi-half-plane. (Russian) 90f:32008
- Nono, Kiyoharu (with Inenaga, Yoshikazu) On quaternionic analysis of holomorphic mappings in C^2 . 90b:32015
- Items with secondary classifications in 32A30
- Arai, Hitoshi Estimates of harmonic measures associated with degenerate Laplacian on strictly pseudoconvex domains. 90m:32004
- Bloom, Thomas On the convergence of multivariable Lagrange interpolants. 90m:32032
- Huang, Li Feng see Ren, Fu Yao, 90g:30034
- Ibragimov, G. I. Representation of regular functions by Dirichlet series in a closed domain. (Russian. English and Azerbaijani summaries) 90a:30007
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- Kubicka, Ewa (with Poreda, Tadeusz) On the parametric representation of starlike maps of the unit ball in C^n into C^n . 90g:32031
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- Matsumoto, Mitsuo see Kizuka, Takashi, 90j:32031
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- Rudin, Walter Tangential H^∞ -images of boundary curves. 90d:32011
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- 32A35 H^p -spaces [see also 32M15, 42B30, 43A85, 46J15]
- Adachi, Kenzō Extending H^p functions from subvarieties to real ellipsoids. 90d:32008
- Ahern, Patrick (with Bruna, Joaquim) Maximal and area integral characterizations of Hardy-Sobolev spaces in the unit ball of C^n . 90b:32011
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- Thomas, Pascal J. Hardy interpolating sequences of hyperplanes. 90b:32017
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- Nawrocki, M. The nonisomorphism of the Smirnov classes of different balls and polydiscs. 90b:46052
- Nikilma, T. N. An analogue of Carleman's formula in the future tube. 90c:32001
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- Zhu, Ke He Duality and Hankel operators on the Bergman spaces of bounded symmetric domains. 90b:47051

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- Cohn, William S. Boundary interpolation for continuous holomorphic functions. 90j:32019
- Dufresnoy, Alain Sur l'équation de Monge-Ampère complexe dans la boule de \mathbb{C}^n . [On the complex Monge-Ampère equation in the unit ball of \mathbb{C}^n] 90b:32020
- Dupain, Yves Limites radiales de fonctions holomorphes dans la boule unité de \mathbb{C}^n . [Radial limits of holomorphic functions in the unit ball in \mathbb{C}^n] 90b:32010
- Enisyan, O. M. Boundary singularities of functions in a polydisk. (Russian. Armenian summary) 90d:32009
- Hedenmalm, Håkan Outer functions of several complex variables. 90j:32006
- Kakichev, V. A. The Hilbert problem for bidomains. (Russian) 90m:32015
- Karunakaran, V. Bieberbach functions and periodic distributions. 90j:32010
- Koepf, Peter M. Mapping properties of the Szegő operator for the bidisc. 90b:32013
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- Nazaryan, E. O. A multidimensional analogue of the Carleman formula that has a holomorphic kernel. (Russian. English and Armenian summaries) 90d:32010
- Ouyang, Cai Heng Baernstein theorem in unit ball of \mathbb{C}^n . 90b:32014
- Rudin, Walter Tangential H^∞ -images of boundary curves. 90d:32011
- Sergeev, A. G. The Lindelöf theorem, and pseudoconvex neighborhoods for the future tube. (Russian) 90c:32009

- Watanabe, Hiroshi On the diagonalization in Bergman spaces. 90b:32022
- Zav'yalov, B. I. Asymptotic properties of functions that are holomorphic in tubular cones. 90b:32015
- Znamenskaya, L. N. Multidimensional analogues of the F. and M. Riesz theorem and Carleman's formula. (Russian) 90m:32016

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- Aladro, Gerardo The comparability of the Kobayashi approach region and the admissible approach region. 90j:32029
- Aleksandrov, A. B. Orthogonal bases of inner functions. 90j:32007
- Arai, Hiroshi Estimates of harmonic measures associated with degenerate Laplacian on strictly pseudoconvex domains. 90m:32004
- Beatrous, F. (with Burbea, J.) Holomorphic Sobolev spaces on the ball. 90b:32010
- Burbea, J. see Beatrous, F., 90b:32010
- Carmichael, Richard D. Values on the topological boundary of tubes. 90a:46103
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- Distributional and L^2 boundary values on the topological boundary of tubes. 90b:46075
- Chen, Shu Jin Integral representations of continuously differentiable functions of several complex variables and their applications. (Chinese. English summary) 90a:32006
- Chen, So-Chin Real analytic boundary regularity of the Cauchy kernel on convex domains. 90b:32012
- Cheng, Jin On Riemann-Hilbert boundary value problems for complex overdetermined partial differential equations of first order. 90b:35193
- Choe, Boe Rim Projections, the weighted Bergman spaces, and the Bloch space. 90b:32009
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- Dobrushin, P. V. On the Lindelöf theorem in \mathbb{C}^n . 90b:32002
- Gencher, T. G. A weighted version of the Paley-Wiener theorem. 90b:32004
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- Kim, Kang Tae Complete localization of domains with noncompact automorphism groups. 90b:32035
- Krotov, V. G. Differential properties on the boundary of functions that are holomorphic in the unit ball in \mathbb{C}^n . 90j:32007
- Mitrović, Dragita see Carmichael, Richard D., 90m:46072
- Pathak, R. S. (with Paul, A. C.) Distributional boundary values in $(S^m)'$ -spaces of functions analytic in tubular radial domains. 90d:46066
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- Paul, A. C. see Pathak, R. S., 90d:46066 and 90m:46073
- Prenov, B. B. (with Tarkhanov, N. N.) A remark on the jump of the Martinelli-Bochner integral for domains with a piecewise smooth boundary. 90b:32010
- Schiffler, Karl-Heinz On holomorphic functions on Riemann surfaces and the Riemann-Hilbert problem. 90b:46076
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- Tarkhanov, N. N. see Prenov, B. B., 90b:32010

32A45 Hyperfunctions [see also 46F15]

- Ito, Yoshifumi Fourier hyperfunctions of general type. 90a:32010
- Kaneko, Akira ★ Introduction to hyperfunctions. 90m:32017
- On hyperfunctions with analytic parameters. 90c:32010
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- Kataoka, Kiyomi (with Tose, Nobuyuki) Vanishing theorems for the sheaf of microfunctions with holomorphic parameters—flabbiness of the sheaf of 2-microfunctions. 90b:32011
- Lieutenant, J.-L. Extensions of microfunction sheaves up to the boundary. 90b:32016
- Morimoto, Mitsuo (with Wada, Ryoko) Analytic functionals on the complex light cone and their Fourier-Borel transformations. 90d:32012
- Tajima, Shinichi Support of CR-hyperfunctions. 90b:32006
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- Andronikof, E. Microlocalisation tempérée. Application aux distributions holonomes sur une variété complexe. [Tempered microlocalization. Application to holonomic distributions on a complex manifold] 90m:58196
- Colombeau, J.-F. (with Galé, José E.) Analytic continuation of generalized functions. 90d:46060
- Drozhzhinov, Yu. N. (with Zav'yalov, B. I.) Multidimensional Abelian and Tauberian comparison theorems. (Russian) 90b:40007
- (Fantappiè, Luigi) see Struppa, Daniele C., 90c:01048
- Galé, José E. see Colombeau, J.-F., 90d:46060
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- (Kashiwara, Masaki) see Summary of Masaki Kashiwara's "The study of algebraic analysis", 90m:01005
- Kawai, Takahiro (with Takei, Yoshitsugu) On the global existence of real analytic solutions of systems of linear differential equations. 90b:58248
- Ôka, Toshiro Higher-codimensional boundary value problem and F -mild hyperfunctions. 90b:58208
- Pathak, R. S. (with Paul, A. C.) Representations of ultradistributions of compact support by boundary values of analytic functions. 90b:46082
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- Struppa, Daniele C. Luigi Fantappiè and the theory of analytic functionals. (Italian) 90c:01048

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- Bui Doan, Khanh (with Sunyach, Christian) Polynômes à phase minimale en deux variables. (English summary) [Minimum-phase polynomials in two variables] 90d:32013
 Kakichev, V. A. (with Lepskii, A. E.) Some properties of holomorphic functions of a countable number of arguments. (Russian) 90j:32009
 Lepskii, A. E. *see* Kakichev, V. A., 90j:32009
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- Atakhodzhaev, M. A. (with Irgashev, M. Kh.) Zeros of periodic pluriharmonic functions in $2n$ -dimensional spaces. (Russian) 90k:31009
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 Knopf, Peter M. Mapping properties of the Szegő operator for the bidisc. 90b:32013
 Leray, J. La transformation de Laplace-d'Alembert. [The Laplace-d'Alembert transform] 90c:44003
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 Shuh, Michael On the distance to the zero set of a homogeneous polynomial. 90k:12004
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32Bxx Local analytic geometry [see also 13-XX and 14-XX]

32B05 Analytic algebra and generalizations, preparation theorems

- Brogia, Fabrizio (with Tognoli, A.) Approximation of C^∞ -functions without changing their zero-set. (French summary) 90k:32023
 Płoski, Arkadiusz Remarks on polynomial equations with analytic coefficients. (Russian summary) 90d:32014
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 Hironaka, Heisuke (with Urabe, Tetsuke) ★ Kaiseiki kukan nyumon. (Japanese) [Introduction to analytic spaces] 90g:32001
 Kucharz, W. Invertible ideals in real holomorphy rings. 90j:12002
 Milman, Pierre D. *see* Bierstone, Edward, 90j:32011
 Nandakumar, N. R. An application of Nienhuys-Thiemann's theorem to ring derivations on $H(G)$. 90a:46139
 van der Put, M. Uniformisation p -adique. [p -adic uniformization] 90e:11090
 Shiota, Masahiro Extension et factorisation de fonctions de Nash C^∞ . (English summary) [Extension and factorization of C^∞ Nash functions] 90h:32017
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32B10 Germs of analytic sets

- Adkins, William A. Lifting homeomorphisms of a complex surface to its normalization. 90j:32010
 Chodzyński, Jacek (with Płoski, Arkadiusz) An inequality for the intersection multiplicity of analytic curves. (Russian summary) 90b:32013
 Costa, Antonio F. Note on the degree of C^0 -sufficiency of plane curves. 90k:32024
 Izumi, Shunzo Note on convergence and orders of vanishing along curves. 90m:32021
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 Miodek, Andrzej The generalized parametric multiplicity. (Polish summary) 90a:32017
 — On some method of calculating a multiplicity. (Polish summary) 90a:32018
 Nguyễn Hà'u Dô'c (with Nguyễn Tiến Dai) Stability of regular geometric interactions between holonomic components. 90g:58007
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- Wallace C., Myrna Characterization of analytic vector fields in \mathbb{R}^3 that are tangent to the Whitney umbrella. (Spanish. English summary) 90d:58020

32B15 Analytic subsets of affine space

- Fortuna, Elisabetta (with Galbiati, Margherita) Séparation de semi-algébriques. (English summary) [Separation of semi-algebraic sets] 90k:32025
 Galbiati, Margherita *see* Fortuna, Elisabetta, 90k:32025

Items with secondary classifications in 32B15

- Brogia, Fabrizio (with Tognoli, A.) Approximation des fonctions C^∞ et points de platitude. (English summary) [Approximation of nonflat C^∞ functions] 90i:58010
 Grybowski, Jerzy Analytic continuation from compact set. 90b:32033
 Huber, Roland The Zariski closure of semialgebraic subsets of complex varieties. 90k:14020
 Russakovskii, A. M. On continuation with estimates from analytic sets of codimension 1. (Russian) 90k:32006
 Sheremet'ev, V. E. Analytic multifunctions in $C^n \times C^k$ and an analogue of a theorem of Oka. (Russian) 90c:32010
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32B20 Semi-analytic sets and subanalytic sets

- Bierstone, Edward (with Milman, Pierre D.) ★ The local geometry of analytic mappings. 90j:32011
 Denkowski, Zofia La longueur des arcs dans les fibres d'un sous-analytique. (English summary) [Arc length in the fibers of a subanalytic set] 90h:32014
 — (with Wacht, Krystyna) On the existence of a subanalytic selection for the subanalytic set-valued function. 90b:32018
 Fekak, Azeddine Sur les exposants de Łojasiewicz. [Łojasiewicz exponents] 90b:32015
 Henry, Jean-Pierre (with Merle, Michel) Stratifications de Whitney d'un ensemble sous-analytique. (English summary) [Whitney stratifications of a subanalytic set] 90d:32015
 Kayal, Toufik (with Raby, G.) Ensembles sous-analytiques: quelques propriétés globales. (English summary) [Subanalytic sets: some global properties] 90d:32016
 Kurdyka, K. (with Raby, G.) Densité des ensembles sous-analytiques. (English summary) [Density of subanalytic sets] 90k:32026
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 — Sur l'adhérence d'un ensemble partiellement semi-algébrique. [Closure of a partially semi-algebraic set] 90k:32027
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 Souville, Jean Décomposition des cycles sous-analytiques maximale complexes. [Decomposition of maximally complex subanalytic cycles] 90a:32012
 Sussmann, H. J. Real analytic desingularization and subanalytic sets: an elementary approach. 90c:32007
 Wacht, Krystyna Le "lemme du petit arc" pour les ensembles sous-analytiques ouverts. (English summary) [The "curve selection lemma" for open subanalytic sets] 90c:32011
 — *see also* Denkowski, Zofia, 90b:32018

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- Denef, J. Multiplicity of the poles of the Poincaré series of a p -adic subanalytic set. 90f:11089
 Levine, Harold I. A lower bound for the topological complexity of $\text{Poly}(D, n)$. 90i:68050
 Robson, Robert O. Local semianalytic geometry. 90i:14022
 Trotman, David Une version microlocale de la condition (w) de Verdier. (English summary) [A microlocal version of Verdier's condition (w)] 90k:32046
 Yomdin, Y. Volume growth and entropy. 90g:58008
 — C^k -resolution of semialgebraic mappings. Addendum to: "Volume growth and entropy". 90g:58009

32B25 Triangulation and related questions

Items with secondary classifications in 32B25

- Brogia, Fabrizio Simple coverings for stratified spaces. (Italian) 90k:58005
 Bulla, W. (with Gesztesy, F.; Unterkofler, K.) On relativistic energy band corrections in the presence of periodic potentials. 90c:81038
 Gesztesy, F. *see* Bulla, W.; et al., 90c:81038
 Unterkofler, K. *see* Bulla, W.; et al., 90c:81038

32B30 Local singularities [see also 14B05, 32C40, 32C42]

- Abhyankar, Shreeram S. Irreducibility criterion for germs of analytic functions of two complex variables. 90b:32018
 Betina, K. Caractérisation des connexions singulières régulières le long d'un diviseur à croisements normaux. [Characterization of the regular singular connections along a divisor with normal crossings] 90i:32011
 Damon, James Topological invariants of μ -constant deformations of complete intersection singularities. 90j:32012
 Denef, J. (with Sargos, Patrick) Polyèdre de Newton et distribution f_2 . I. [The Newton polyhedron and the distribution f_2 . I] 90k:32028
 Dimca, A. On the fundamental group of the complement of an analytic hypersurface. 90b:32019
 Ishii, Shihoko Two-dimensional singularities with bounded pluri-genera δ_n are \mathbb{Q} -Gorenstein singularities. 90h:32019

de Jong, Theo Some classes of line singularities. 90a:32013

Kang, Chunghyuk The computation method of the Milnor number of hypersurface singularities defined by an irreducible Weierstrass polynomial $z^n + a(x, y)z + b(x, y) = 0$ in \mathbb{C}^3 and its application. 90m:32022

Klaris, Bernard Analytical reduction of differential systems. 90b:32020

Lichtin, B. Poles of $|f(z, w)|^2$ and roots of the b -function. 90k:32029

Matsuoka, Sachiko An algebraic criterion for right-left equivalence of holomorphic functions on analytic varieties. 90g:32008

Némethi, A. The link of the sum of two holomorphic functions. 90b:32021

O'Shea, Donald B. Spaces of limiting tangent spaces. 90b:32020

Parameswaran, A. J. Classification of isolated complete intersection singularities. 90e:32012

Pelikaan, Roud On hypersurface singularities which are stems. 90k:32030

Saeki, Osamu Topological types of complex isolated hypersurface singularities. 90c:32012

Sánchez Peregrino, R. Identité de Bernstein pour une fonction homogène à singularité isolée. [Bernstein identity for a homogeneous function with isolated singularity] 90k:32031

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Shubladze, M. Sh. Flat isolated singularities of analytic functions of three complex variables. (Russian. English and Georgian summaries) 90b:32022

Vaqué, M. Modification de Nash et invariants numériques d'une surface normale. [Nash modification and numerical invariants of a normal surface] 90j:32013

Varchenko, A. N. Critical values and the determinant of periods. 90k:32013

Weber, Claude A topological interpretation for the polar quotients of an algebraic plane curve singularity. 90d:32017

Xu, Yijiang (with Yau, Stephen S.-T.) The inequality $\mu \geq 12p_1 - 4$ for hypersurface weakly elliptic singularities. 90g:32009

Yano, Tamaki Locally prehomogeneous spaces and their transverse localizations. 90h:32021

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Aleksandrov, A. G. Nonisolated Saito singularities. 90b:32024

Aroca Hernández-Roa, José M. Results of F. Cano on Thom's conjecture. (Spanish. English summary) 90c:57020

Cerveau, Dominique (with Moussu, R.) Groupes d'automorphismes de $(\mathbb{C}, 0)$ et équations différentielles $y'dy + \dots = 0$. (English summary) [Groups of automorphisms of $(\mathbb{C}, 0)$ and differential equations of the form $y'dy + \dots = 0$] 90m:58192

Costa, Antonio F. Note on the degree of \mathbb{C}^0 -sufficiency of plane curves. 90k:32024

Cucker, Felipe (with Pardo, L. M.; Raimondo, M.; Recio Muñoz, Tomás J.; Roy, M.-F.) On the computation of the local and global analytic branches of a real algebraic curve. 90j:14020

Duval, Julien Convexité rationnelle des tores lagrangiens de \mathbb{C}^2 . (English summary) [Rational convexity of Lagrangian tori in \mathbb{C}^2] 90a:32016

Ehlers, F. (with Scherk, J.) On the highest weight deformation of a quasihomogeneous surface singularity. 90f:14001

Fiedler, Thomas Real points on complex plane curves. 90f:14022

Gau, Yih-Nan On the topological types of quasi-ordinary surface germs. 90e:14040

Hansen, Vagn Lundsgaard Polynomial covering maps. 90c:57001

Hauser, H. (with Randell, R.) Report on the problem session. 90c:32017

— (with Müller, Gerd) Algebraic singularities have maximal reductive automorphism groups. 90c:32041

Kahn, Constantin P. M. Reflexive modules on minimally elliptic singularities. 90f:14011

Kannowaki, M. Simply connected four-manifolds obtained from weighted homogeneous polynomials. 90i:57008

Lauter, Henry B. Tangent cones for deformations of two-dimensional quasi-homogeneous singularities. 90g:32024

Libgober, A. Invariants of plane algebraic curves via representations of the braid groups. 90a:14038

Lichtin, B. Poles of Dirichlet series and D -modules. 90m:11133

Martin, Bernd (with Pfister, Gerhard) Singularities of moduli spaces. 90m:14004

Martinskovsky, Alex Almost split sequences and Zariski differentials. 90f:14038

Meziani, A. Topological rationalization of a class of meromorphic functions. 90m:32010

Michel, Françoise Courbes polaires pour les singularités de type "arbre de Noël". (English summary) [Polar curves for "Christmas-tree" singularities] 90c:14015

Moussu, R. see Cerveau, Dominique, 90m:58192

Müller, Gerd see Hauser, H., 90c:32041

Orevkov, S. Yu. The fundamental group of the complement of a plane algebraic curve. 90e:14028

Orlik, Peter ★ Introduction to arrangements. 90i:32018

Pardo, L. M. see Cucker, Felipe; et al., 90j:14020

Pfister, Gerhard see Martin, Bernd, 90m:14004

Raimondo, M. see Cucker, Felipe; et al., 90j:14020

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Roy, M.-F. see Cucker, Felipe; et al., 90j:14020

Rudolph, Lee Quasipositivity and new knot invariants. 90k:57009

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Trotman, David Une version microlocale de la condition (w) de Verdier. (English summary) [A microlocal version of Verdier's condition (w)] 90k:32046

Viner, G. M. The mechanism of equilibrium instability of natural systems. 90g:70019

Weinberg, David A. The topological classification of cubic curves. 90b:14049

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Real algebraic geometry ★ Jitsu daisi kika. [Real algebraic geometry] 90b:14032

Symposium:

Real Algebraic Geometry ★ Jitsu daisi kika. [Real algebraic geometry] 90b:14032

32B99 None of the above, but in this section

Ramanakoraisina, Rodolphe Complexité des fonctions de Nash. (English summary) [Complexity of Nash functions] 90c:32008

Items with secondary classifications in 32B99

van den Dries, Lou Convergent series expansions of a new type for exponential functions. 90k:12003

Hamm, Helmut A. (with Lê Dũng Tráng) Local generalizations of Lefschetz-Zariski theorems. 90a:32019

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Pasini, Leonardo (with Marchis, Carla) Exponentially and logarithmically closed Hardy fields in several variables. 90i:26030

32Cxx General theory of analytic spaces

Items with secondary classifications in 32Cxx

Gelfand, S. I. (with Manin, Yu. I.) ★ Методы гомологической алгебры. Том I. (Russian) [Methods in homological algebra. Vol. I] 90k:18016

Hironaka, Heisuke (with Urabe, Tohsuke) ★ Kaiseki kukan nyumon. (Japanese) [Introduction to analytic spaces] 90g:32001

Manin, Yu. I. see Gelfand, S. I., 90k:18016

Urabe, Tohsuke see Hironaka, Heisuke, 90g:32001

32C05 Real-analytic manifolds, real-analytic spaces

[see also 14G30, 58A07]

Guaraldo, Francesco Extensions of isomorphisms among analytic or real Nash spaces. (Italian. English summary) 90b:32022

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Bochnak, J. (with Coste, M.; Roy, M.-F.) ★ Géométrie algébrique réelle. (French) [Real algebraic geometry] 90b:14030

Coste, M. see Bochnak, J.; et al., 90b:14030

Guaraldo, Francesco (with Macrì, Patrizia; Tancredi, Alessandro) ★ Topics on real analytic spaces. 90j:32001

Huber, Roland The Zariski closure of semialgebraic subsets of complex varieties. 90k:14020

Kirchheim, Bernd Uniformly distributed measures, tangent measures and analytic varieties. (see 90g:28001)

Macrì, Patrizia see Guaraldo, Francesco; et al., 90j:32001

Milman, Pierre D. see Bierstone, Edward, 90j:32011

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Ruiz, Jesús M. On the connected components of a global semianalytic set. 90b:32016

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Tognoli, A. Analyticity of homology classes. 90d:57040

Wachta, Krystyna Le "lemme du petit arc" pour les ensembles sous-analytiques ouverts. (English summary) [The "curve selection lemma" for open subanalytic sets] 90c:32011

32C10 Complex manifolds {For almost complex manifolds, see 53C15.}

Duchamp, T. (with Kalka, M.) The equivalence problem for complex foliations of complex surfaces. 90k:32032

Givental, A. B. Plücker formulas and Cartan matrices. 90k:32033

Hill, C. Denson What is the notion of a complex manifold with a smooth boundary? 90c:32009

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Kobayashi, Ryoichi (with Nakamura, Shu; Sakai, Fumio) A numerical characterization of ball quotients for normal surfaces with branch loci. 90k:32034

McHugh, Andrew A Newlander-Nirenberg theorem for supermanifolds. 90c:32013

Nakamura, Shu see Kobayashi, Ryoichi; et al., 90k:32034

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Sankaran, G. K. A class of non-Kähler complex manifolds. 90f:32011

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Webster, Sidney A new proof of the Newlander-Nirenberg theorem. 90f:32012

Zhang, Jin Hao Chern-Levin (Levine)-Nirenberg norm on homology class. 90d:32018

Items with secondary classifications in 32C10

Andrzejczak, Grzegorz Kähler shift makes Chern classes Riemannian. 90f:53104

Candelas, P. Lectures on complex manifolds. 90i:32001

Dai, Xin Sheng A class of symmetric functions and Chern classes of projective varieties. 90h:14030

Donaldson, S. Complex curves and surgery. 90k:57041

Fernández, Marisa Luisa (with Gotay, Mark J.; Gray, Alfred) Compact parallelizable four-dimensional symplectic and complex manifolds. 90a:53039

Fiedler, Thomas Twistor holomorphic immersions of real surfaces into Kähler surfaces. 90d:53070

Fujiki, Akira On the de Rham cohomology group of a compact Kähler symplectic manifold. 90d:53083

Ganchev, Hillel Inequalities for cohomology classes of Kaehler manifolds. 90m:53077

Goldman, William M. (with Millson, John J.) The deformation theory of representations of fundamental groups of compact Kähler manifolds. 90b:32041

Goresky, R. Mark (with MacPherson, Robert) ★ Stratified Morse theory. 90d:57039

Gotay, Mark J. see Fernández, Marisa Luisa; et al., 90a:53039

Gray, Alfred see Fernández, Marisa Luisa; et al., 90a:53039

- Gromov, Mikhael L. Sur le groupe fondamental d'une variété kählérienne. (English summary) [On the fundamental group of a Kähler manifold] 90m:53090
- Hirzebruch, Friedrich Elliptic genera of level N for complex manifolds. 90m:57030
- Hsiung, Chuan-Chih Nonexistence of a complex structure on the six-sphere. 90m:53051
- Kaimanovich, V. A. Harmonic and holomorphic functions on coverings of complex manifolds. (Russian) 90m:32005
- Kalina, Jerzy (with Pierzchalski, Antoni) Some differential operators in real and complex geometry. 90g:58137
- Kannowski, M. Simply connected four-manifolds obtained from weighted homogeneous polynomials. 90i:57008
- Kotschick, Dieter On manifolds homeomorphic to $CP^2 \# 8CP^2$. 90a:57047
- Lanteri, Antonio (with Struppa, Daniele C.) Topological properties of cyclic coverings branched along an ample divisor. 90i:14021
- Lupton, Gregory Intrinsic formality and certain types of algebras. 90k:55016
- Lütken, C. A. Geometry of the Z -fold. 90h:81174
- MacPherson, Robert see Goresky, R. Mark, 90d:57039
- Manin, Yu. I. see Voronov, A. A.; et al., 90c:58016
- Millson, John J. Deformations of representations of finitely generated groups. 90c:22034 — see also Goldman, William M., 90b:32041
- Mok, Ngaiming Compactification of complete Kähler-Einstein manifolds of finite volume. 90j:32065
- Nguyen Dinh Sang (with Nguyễn Văn Khuê) Mixed spaces. 90c:32038
- Nguyễn Văn Khuê see Nguyễn Dinh Sang, 90c:32038
- Nomizu, Katsumi (with Podestà, Fabio) On affine Kähler structures. 90j:53087
- Ōike, Hiroshi Holomorphic tangent bundles and normal bundles of complex submanifolds of complex projective spaces. 90k:32086
- Okonek, Christian (with Van de Ven, A.) Γ -type-invariants associated to $PU(2)$ -bundles and the differentiable structure of Barlow's surface. 90a:57048
- Penkov, I. B. see Voronov, A. A.; et al., 90c:58016
- Pierzchalski, Antoni see Kalina, Jerzy, 90g:58137
- Podestà, Fabio see Nomizu, Katsumi, 90j:53087
- Shafarevich, I. R. ★ Основы алгебраической геометрии. Том 2. (Russian) [Fundamentals of algebraic geometry. Vol. 2] 90j:14002
- Shatalov, V. E. see Sternin, B. Yu., 90b:58262
- Sternin, B. Yu. (with Shatalov, V. E.) Asymptotic behavior of solutions of differential equations on complex varieties. 90b:58262
- Struppa, Daniele C. see Lanteri, Antonio, 90i:14021
- Van de Ven, A. see Okonek, Christian, 90a:57048
- Voronov, A. A. (with Manin, Yu. I.; Penkov, I. B.) Elements of supergeometry. (Russian) 90c:58016
- Waliszewski, Włodzimierz Complex premanifolds and foliations. 90b:58011

32C15 Complex spaces

- Barlet, Daniel (with Varouchas, J.) Fonctions holomorphes sur l'espace des cycles. (English summary) [Holomorphic functions on the space of cycles] 90m:32023
- Dethloff, Gerd-E. A new proof of a theorem of Grauert and Remmert by L_2 -methods. 90m:32024
- Pardon, William The L_2 - $\bar{\partial}$ -cohomology of an algebraic surface. 90i:32014
- Varouchas, J. see Barlet, Daniel, 90m:32023

Items with secondary classifications in 32C15

- Dau The Cap (with Nguyen Huu Vien) On Noetherianness and Laskerianess of algebras of germs of holomorphic functions on compact subsets. 90m:32031
- Ferrer-Llop, Josep (with Puerta Sales, Fernando) Déformations C^* -équivariantes de germes de faisceaux cohérents. [C^* -equivariant deformations of germs of coherent sheaves] 90d:32036
- Hayes, Sandra (with Pourcin, Geneviève) Global construction of the normalization of Stein spaces. 90d:32029
- Izumi, Shuzo Note on convergence and orders of vanishing along curves. 90m:32021
- Nguyen Huu Vien see Dau The Cap, 90m:32031
- Pourcin, Geneviève see Hayes, Sandra, 90d:32029
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32C20 Normal analytic spaces

- Ofman, Salomon Intégration des classes de d' -cohomologie sur les cycles analytiques. Solution du problème de l'injectivité. [Integration of d' -cohomology classes on analytic cycles. Solution of the problem of injectivity] 90i:32023

Items with secondary classifications in 32C20

- Adkins, William A. Lifting homeomorphisms of a complex surface to its normalization. 90j:32010
- Dethloff, Gerd-E. A new proof of a theorem of Grauert and Remmert by L_2 -methods. 90m:32024
- Nagase, Masayoshi Remarks on the L^2 -cohomology of singular algebraic surfaces. 90m:58005
- Vaqué, M. Modification of Nash et invariants numériques d'une surface normale. [Nash modification and numerical invariants of a normal surface] 90j:32013

32C25 Analytic subsets and submanifolds

- Globevnik, J. A holomorphic function whose level sets have infinite area. 90i:32015
- Reiffen, Hans-Jörg Leafspaces and integrability. 90c:32014
- Ruiz, Jesús M. A characterization of sums of $2n$ th powers of global meromorphic functions. 90k:32035
- Sheremetev, V. E. Analytic multifunctions in $C^n \times C^k$ and an analogue of a theorem of Oka. (Russian) 90c:32010

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- Burstall, Francis E. Recent developments in twistor methods for harmonic maps. 90c:58040
- Winiarski, Tadeusz Local properties of intersection. 90b:32017

32C30 Integration on analytic sets and spaces, currents (For local theory, see 32A25 or 32A27.)

- Dolbeault, Pierre Sur la structure des courants résiduels. [On the structure of residual currents] 90c:32015
- Passare, Mikael A calculus for meromorphic currents. 90d:32020
- Residues, currents, and their relation to ideals of holomorphic functions. 90d:32019
- Tikh, A. K. Integrals of rational functions over the space R^n . 90k:32036

Items with secondary classifications in 32C30

- Barlet, Daniel (with Varouchas, J.) Fonctions holomorphes sur l'espace des cycles. (English summary) [Holomorphic functions on the space of cycles] 90m:32023
- Berenstein, Carlos A. (with Gay, Roger; Yger, Alain) Analytic continuation of currents and division problems. (French summary) 90f:32006
- Berndtsson, Bo (with Passare, Mikael) Integral formulas and an explicit version of the fundamental principle. 90i:32006
- Bismut, Jean-Michel Localisation du caractère de Chern en géométrie complexe et superconnexions. (English summary) [Localization of the Chern character in complex geometry and superconnections] 90c:32039
- Gay, Roger see Berenstein, Carlos A.; et al., 90f:32006
- Globevnik, J. A holomorphic function whose level sets have infinite area. 90i:32015
- Khenkin, G. M. (with Polyakov, P. L.) The Grothendieck-Dolbeault lemma for complete intersections. (French summary) 90f:32007
- Magnusson, Jón Singularités polaires et points de Weierstrass en codimension plus grande que un. [Polar singularities and Weierstrass points in codimension greater than one] 90d:32022
- Ofman, Salomon Intégration des classes de d' -cohomologie sur les cycles analytiques. Solution du problème de l'injectivité. [Integration of d' -cohomology classes on analytic cycles. Solution of the problem of injectivity] 90i:32023
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- Polyakov, P. L. see Khenkin, G. M., 90f:32007
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- Souville, Jean Décomposition des cycles sous-analytiques maximale complexes. [Decomposition of maximally complex subanalytic cycles] 90a:32012
- Sternin, B. Yu. (with Shatalov, V. E.) On the theory of Leray residues. (Russian) 90j:32006
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- Yger, Alain see Berenstein, Carlos A.; et al., 90f:32006
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- Zhang, Jin Hao Chern-Levin [Levine]-Nirenberg norm on homology class. 90d:32018

32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

- Baran, Andrei Duality for complexes of sheaves with coherent cohomology on analytic spaces. (Romanian. English summary) 90k:32037
- Coen, Salvatore A remark on characters and point evaluations. (Italian summary) 90c:32016
- Eschmeier, Jörg (with Putinar, Mihai) The sheaf \mathcal{E} is not topologically flat over \mathcal{O} . 90h:32024
- Golovin, V. D. ★ Homology of analytic sheaves and duality theorems. 90d:32021
- Kosarew, Siegmund A note on the local homotopy type of direct image sheaf complexes. 90g:32011
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- Sasakura, Nobuo Configuration of divisors and reflexive sheaves. 90i:32017
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- Tajima, Shinichi $\bar{\partial}_k$ -cohomology and the Bochner-Martinelli kernel. 90b:32023

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- Bauer, Ingrid (with Kosarew, Siegmund) On the Hodge spectral sequence for some classes of noncomplete algebraic manifolds. 90e:14019
- Bismut, Jean-Michel Localisation du caractère de Chern en géométrie complexe et superconnexions. (English summary) [Localization of the Chern character in complex geometry and superconnections] 90c:32039
- (with Gillet, Henri; Soulé, Christophe) Classes caractéristiques secondaires et immersions en géométrie complexe. (English summary) [Secondary characteristic classes and immersions in complex geometry] 90c:32040
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- Khenkin, G. M. (with Polyakov, P. L.) The Grothendieck-Dolbeault lemma for complete intersections. (French summary) 90f:32007
- Kosarew, Siegmund ★ Grothendieck's existence theorem in analytic geometry and related results. 90a:32031
- (with Okonek, Christian) Global moduli spaces and simple holomorphic bundles. 90k:32069

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Nacimovich, M. On strict Levi q -convexity and q -concavity on domains with piecewise smooth boundaries. 90b:32033

Ofman, Salomon. Intégration des classes de d' -cohomologie sur les cycles analytiques. Solution du problème de l'injectivité. [Integration of d' -cohomology classes on analytic cycles. Solution of the problem of injectivity] 90b:32023

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Pittie, Harsh V. The Dolbeault-cohomology ring of a compact, even-dimensional Lie group. 90c:32035

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32C36 Local cohomology of analytic spaces

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32C37 Duality theorems

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Chiarellotto, Bruno. Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p -adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p -adic cohomologies] 90c:14012

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32C38 Sheaves of differential operators and their modules

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Hauser, H. Comparing modules of differential operators by their evaluation on polynomials. 90d:32023

Maisonobe, P. Faisceaux pervers sur \mathbb{C} relativement à $\{0\}$ et couple $E \stackrel{u}{\leftarrow} F$. [Perverse

sheaves over \mathbb{C} with respect to $\{0\}$ and the pair $E \stackrel{u}{\leftarrow} F$] 90k:32039

— Germes de D -modules à une variable et leurs solutions. [Germs of D -modules with one variable and their solutions] 90k:32040

Malgrange, Bernard. Extension of holonomic \mathcal{D} -modules. 90c:32011

Mekkhout, Z. On the irregularity of the \mathcal{S}_X holonomic modules. 90c:32012

— ★ Le formalisme des six opérations de Grothendieck pour les \mathcal{S}_X -modules cohérents. (French) [The formalism of Grothendieck's six operations for coherent \mathcal{S}_X -modules] 90m:32026

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Sabbah, C. Proximité évanescence. I. La structure polaire d'un \mathcal{D} -module. (English summary) [Vanishing proximity. I. The polar structure of a \mathcal{D} -module] 90a:32014

— Proximité évanescence. II. Équations fonctionnelles pour plusieurs fonctions analytiques. (English summary) [Vanishing proximity. II. Functional equations for several analytic functions] 90a:32015

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Bernstein, Joseph (with Lunts, Valery) On nonholonomic irreducible D -modules. 90b:58247

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Cline, E. (with Parshall, B.; Scott, Leonard L.) Finite-dimensional algebras and highest weight categories. 90d:18005

Coutinho, S. C. (with Holland, M. P.) Differential operators on smooth varieties. 90m:16017

Hodges, Timothy J. K -theory of D -modules and primitive factors of enveloping algebras of semisimple Lie algebras. (French summary) 90b:17022

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Kaneko, Akira ★ Introduction to hyperfunctions. 90m:32017

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— Construction des cycles évanescents d'un système différentiel par seconde microlocalisation. [Construction of the vanishing cycles of a differential system by second microlocalization] 90k:32043

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Levasseur, T. (with Stafford, J. T.) Rings of differential operators on classical rings of

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— Poles of $|f(z, w)|^{2p}$ and roots of the b -function. 90k:32029

— Erratum: "Generalized Dirichlet series and b -functions" [Compositio Math. 65 (1988), no. 1, 81–120; MR 89d:32030]. 90k:32050

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Malgrange, Bernard. Transformation de Fourier géométrique. [The geometric Fourier transform] 90c:58178

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McConnell, John Coulter (with Pettit, J. J.) Crossed products and multiplicative analogues of Weyl algebras. 90c:16011

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- Oka, Mutsuo¹ On the stratification of the discriminant varieties. 90f:32015
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- Loeser, F. Fonctions zêta locales d'Igusa à plusieurs variables, intégration dans les fibres, et discriminants. [Igusa's local zeta functions in several variables, integration in fibers, and discriminants] 90m:11194
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- Varchenko, A. N. The numbers of faces of a configuration of hyperplanes. 90i:52018
- Xu, Yijiang (with Yau, Stephen S.-T.) The inequality $\mu \geq 12p_g - 4$ for hypersurface weakly elliptic singularities. 90g:32009
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- Hamm, Helmut A. (with Lê Dũng Tráng) Local generalizations of Lefschetz-Zariski theorems. 90a:32019
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- (with Zelevinskii, A. V.; Kapranov, M. M.) A -discriminants and Cayley-Koszul complexes. 90k:14054
- (with Zelevinskii, A. V.; Kapranov, M. M.) Newton polyhedra of principal A -determinants. 90k:14055
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- Goresky, R. Mark (with MacPherson, Robert) ★ Stratified Morse theory. 90d:57039
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- Salvetti, Mario Generalized braid groups and self-energy Feynman integrals. 90c:55017
- Vasil'ev, V. A. (with Gelfand, I. M.; Zelevinskii, A. V.) General hypergeometric functions on complex Grassmannians. (Russian) 90b:22014
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- Zelevinskii, A. V. see Vasil'ev, V. A.; et al., 90b:22014; Gelfand, I. M.; et al., 90k:14054; 90k:14055; 90m:14045 and 90m:22025

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- Cano, Felipe ★ Desingularization strategies for three-dimensional vector fields. 90i:32020a
- ★ Desingularization strategies for three-dimensional vector fields. 90i:32020b
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Samkora, G. E. Existence of a formal exponential series of a complex differential system near a fixed singular point. (Russian) 90d:34020

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— (with Rothschild, L. P.) Extension of holomorphic functions in generic wedges and their wave front sets. 90b:32036

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32D25 Non-Archimedean function theory

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32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

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32E25 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

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- Agranovskiĭ, M. L. (with Aizenberg, L. A.) Reconstruction of holomorphic and plurisubharmonic functions in circular domains from values on the torus. 90g:32019
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- Graham, Carl On Sparling's characterization of Fefferman metrics. 90f:32021
- McNeal, Jeffery D. Holomorphic sectional curvature of some pseudoconvex domains. 90e:32030
- Pinchuk, S. I. (with Tsyganov, Sh. I.) Smoothness of CR-mappings of strictly pseudoconvex hypersurfaces. (Russian) 90j:32022
- Reimann, H. M. An estimate for pseudoconvex capacities on the sphere. 90m:32041
- Sasaki, Takeshi On the characteristic function of a strictly convex domain and the Fubini-Pick invariant. 90d:32034
- Tsyganov, Sh. I. see Pinchuk, S. I., 90j:32022

Items with secondary classifications in 32F30

- Bland, John S. Bounded imbeddings of open Kähler manifolds in C^N . 90j:53085
- Brummelhuis, R. G. M. (with de Paape, P. J.) Derivations on algebras of holomorphic functions. 90h:32032
- de Paape, P. J. see Brummelhuis, R. G. M., 90h:32032

32F99 None of the above, but in this section

- Graham, Carl (with Lee, John M.) Smooth solutions of degenerate Laplacians on strictly pseudoconvex domains. 90e:32031
- Hachiuchi, R. (with Ramadanov, Ivan Pierre) Une remarque sur la résolution d'une équation de type Monge-Ampère complexe. [A remark on the solution of a complex Monge-Ampère equation] 90e:32021
- Lee, John M. see Graham, Carl, 90e:32031
- Patriolo, Giorgio Homogeneous polynomials and complex Monge-Ampère equations. (Italian summary) 90f:32022
- Ramadanov, Ivan Pierre see Hachiuchi, R., 90e:32021

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- Adachi, Kenzō Extending H^p functions from subvarieties to real ellipsoids. 90d:32008
- Amar, Éric Estimées Lipschitz dans les domaines convexes de type fini de C^2 . (English summary) [Lipschitz estimates in convex domains of finite type in C^2] 90k:32009
- Delanoë, Ph. (with Hirschowitz, André) About the proofs of Calabi's conjectures on compact Kähler manifolds. 90g:32033
- Hirschowitz, André see Delanoë, Ph., 90g:32033
- Isaev, A. V. Classification of spherical tube hypersurfaces that have two minuses in the Levi signature form. 90m:32042
- Kimura, Ikuro (with Oishi, Yukinaga) On a family of holomorphy domains. 90h:32031
- Ohsawa, Takeo On the infinite dimensionality of the middle L^2 cohomology of complex domains. 90i:32016
- Oishi, Yukinaga see Kimura, Ikuro, 90h:32031

32Gxx Deformations of analytic structures

32G05 Deformations of complex structures [see also 13D10, 16A58, 58H10, 58H15]

- Alessandrini, L. (with Bassanelli, G.) Small deformations of a class of compact non-Kähler manifolds. 90h:32064
- Bassanelli, G. see Alessandrini, L., 90h:32064
- El Kacimi-Alaoui, Aziz Stabilité des V -variétés kählériennes. [Stability of Kählerian V -manifolds] 90d:32035
- Ferrer-Llop, Josep (with Puerta Sales, Fernando) Déformations C^* -équivalentes de germes de faisceaux cohérents. [C^* -equivariant deformations of germs of coherent sheaves] 90d:32036
- Miyajima, Kimio Kuranishi family of vector bundles and algebraic description of the moduli space of Einstein-Hermitian connections. 90h:32065
- Mok, Ngaiming Strong rigidity of irreducible quotients of polydiscs of finite volume. 90h:32040
- Puerta Sales, Fernando see Ferrer-Llop, Josep, 90d:32036
- Siu, Yum Tong Nondeformability of the complex projective space. 90h:32048
- Vaintrob, A. Yu. Deformations of complex superspaces and of the coherent sheaves on them. (Russian) 90h:32049
- Items with secondary classifications in 32G05
- Babbitt, D. G. (with Varadarajan, V. S.) Local isoformal deformation theory for meromorphic differential equations near an irregular singularity. 90h:32051
- Campana, F. Geometric algebraicity of moduli spaces of compact Kähler symplectic manifolds. 90c:32023
- Cartier, Pierre Jacobien généralisées, monodromie unipotente et intégrales itérées. [Generalized Jacobians, unipotent monodromy and iterated integrals] 90d:32024
- Cotta-Ramusino, P. (with Martellini, M.; Mintchev, M.) Deformations of complex structures and representations of Krichever-Novikov algebras. 90h:17035
- Dimlev, S. G. (with Petrov, Kalin) Examples of deformations of almost Hermitian structures. 90h:58285
- Fujiki, Akira On the de Rham cohomology group of a compact Kähler symplectic manifold. 90d:58083
- Hazewinkel, Michiel The philosophy of deformations: introductory remarks and a guide to this volume. 90c:58198
- Lütkebohmert, Werner Formal-algebraic and rigid-analytic geometry. 90m:14015
- Martellini, M. see Cotta-Ramusino, P.; et al., 90h:17035
- Mintchev, M. see Cotta-Ramusino, P.; et al., 90h:17035
- Oka, Matsuo¹ On the deformation of certain type of algebraic varieties. 90e:14051
- Petrov, Kalin see Dimlev, S. G., 90h:58285
- Pittie, Harsh V. The Dolbeault-cohomology ring of a compact, even-dimensional Lie group. 90c:32035
- Varadarajan, V. S. see Babbitt, D. G., 90h:32051
- Walpert, Scott A. Cut-and-paste deformations of Riemann surfaces. 90c:32026

32G07 Deformations of special (e.g. CR) structures

- Akaho, Takao Complex analytic construction of the Kuranishi family on a normal strongly pseudoconvex manifold with real dimension 5. 90c:32032
- Girbau, Joan On deformations of holomorphic and transversely holomorphic foliations. 90g:32022
- Items with secondary classifications in 32G07
- Akaho, Takao A remark on the local embedding theorem of CR-structures with higher codimension. 90c:32019
- Fox, Thomas F. Algebraic deformations and bicohomology. 90h:18007
- Hill, C. Denson What is the notion of a complex manifold with a smooth boundary? 90c:32009
- Ohya, Yousuke see Ueno, Kenji, 90j:81004
- Peternell, Thomas Singular surfaces and the rigidity of P_3 . 90a:14008
- Sawa, Tatsuo A factorization theorem for unfoldings of analytic functions. 90h:58288
- Ueno, Kenji (with Ohya, Yousuke) Conformal field theory on Riemann surfaces. (Japanese) (see 90j:81004)

32G10 Deformations of submanifolds and subspaces

- Campana, F. Espaces de twisteurs dont l'espace des cycles a ses composantes irréductibles compactes. (English summary) [Twistor spaces whose cycle space has compact irreducible components] 90c:32022
- Goldman, William M. (with Millson, John J.) The deformation theory of representations of fundamental groups of compact Kähler manifolds. 90h:32041
- Gómez-Mont, Xavier (with Sundararaman, Duraiswami) Remarks on the versal families of deformations of holomorphic and transversely holomorphic foliations. 90h:32066
- Gravesen, Jens On the topology of spaces of holomorphic maps. 90g:32023
- Gruel, Gert-Martin (with Karras, Ulrich) Families of varieties with prescribed singularities. 90d:32037
- Karras, Ulrich see Gruel, Gert-Martin, 90d:32037
- Millson, John J. see Goldman, William M., 90h:32041
- Sundararaman, Duraiswami see Gómez-Mont, Xavier, 90h:32066
- Items with secondary classifications in 32G10
- Arnol'd, V. I. The branched covering $CP^2 \rightarrow S^4$, hyperbolicity and projective topology. 90a:57037
- Barlet, Daniel (with Peternell, Thomas; Schneider, Michael Hellmut) On two conjectures of Hartshorne's. 90m:14006
- Friedman, Robert David (with Morgan, John W.) Complex versus differentiable classification of algebraic surfaces. 90f:57039
- van der Geer, Gerard On rank-1 degenerations of abelian varieties. 90h:14025
- Kawai, Seichi On the local invariant 1-cocycle theorem. 90c:32014
- Morgan, John W. see Friedman, Robert David, 90f:57039

- Peternell, Thomas Singular surfaces and the rigidity of P_3 . 90a:14008
- see also Barlet, Daniel; et al., 90m:14006
- Schneider, Michael Hellmut see Barlet, Daniel; et al., 90m:14006
- Tsuboi, Syoji A theorem on the existence of a maximal analytic family of surfaces with ordinary singularities in the projective 3-space. 90g:32025

32G11 Deformations of singularities

- Brieskorn, E. Automorphic sets and braids and singularities. 90a:32024
- Laufer, Henry B. Tangent cones for deformations of two-dimensional quasi-homogeneous singularities. 90g:32024
- Seeley, Craig (with Yau, Stephen S.-T.) Variation of complex structures and variation of Lie algebras. 90h:32067
- Yau, Stephen S.-T. see Seeley, Craig, 90h:32067
- Items with secondary classifications in 32G11
- Aleksandrov, A. G. Nonisolated Saito singularities. 90h:32024
- Cano, Felipe Réduction des singularités des feuilletages holomorphes. (English summary) [Reduction of the singularities of holomorphic foliations] 90g:32015
- Damon, James Topological equivalence for nonisolated singularities and global affine hypersurfaces. 90f:58009
- Topological invariants of μ -constant deformations of complete intersection singularities. 90j:32012
- Ehlers, F. (with Scherk, J.) On the highest weight deformation of a quasihomogeneous surface singularity. 90f:14001
- Fiedler, Thomas Complex plane curves in the ball. 90g:32013
- Hauser, H. (with Randell, R.) Report on the problem session. 90c:32017
- Oka, Matsuo¹ On the weak simultaneous resolution of a negligible truncation of the Newton boundary. 90h:32030
- Orlik, Peter Stratification of the discriminant in reflection groups. 90d:32026
- O'Shea, Donal B. Spaces of limiting tangent spaces. 90h:32020
- Paul, Emmanuel Étude topologique des formes logarithmiques fermées. [Topological study of closed logarithmic forms] 90f:32023
- Randell, R. see Hauser, H., 90c:32017
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- Shubladze, M. Sh. Flat isolated singularities of analytic functions of three complex variables. (Russian. English and Georgian summaries) 90h:32022
- Siu, Yum Tong Nondeformability of the complex projective space. 90h:32048

32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20.}

- Campana, F. Geometric algebraicity of moduli spaces of compact Kähler symplectic manifolds. 90c:32023
- Doi, Hideo (with Oka, Takayuki) Moduli space of 1-instantons on a quaternionic projective space HP^n . 90h:32068
- Kosarew, Siegmund (with Okonek, Christian) Global moduli spaces and simple holomorphic bundles. 90h:32069
- Murray, M. K. Stratifying monopoles and rational maps. 90c:32032
- Oka, Takayuki see Doi, Hideo, 90h:32068
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- Okonek, Christian see Kosarew, Siegmund, 90h:32069
- Paul, Emmanuel Étude topologique des formes logarithmiques fermées. [Topological study of closed logarithmic forms] 90f:32023
- Saito, Kyoji Moduli space for Fuchsian groups. 90d:32038
- Tsuboi, Syoji A theorem on the existence of a maximal analytic family of surfaces with ordinary singularities in the projective 3-space. 90g:32025
- (with Okawa, Masaki) Some results on the local moduli of nonsingular normalizations of surfaces with ordinary singularities. 90f:32024
- Yoshida, Masaaki ★ Fuchsian differential equations. 90f:32025

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- Baulieu, Laurent (with Bellon, M.; Grimm, Richard) Factorization of the BRST algebra on superconformal structures. 90i:81101
- Bellon, M. see Baulieu, Laurent; et al., 90i:81101
- Bhoole, Usha (with Ramanathan, Annamalai) Moduli of parabolic G -bundles on curves. 90h:14018
- Bonora, L. (with Matone, Marco; Toppan, Francesco; Wu, Ke) b - c system approach to minimal models. The genus-zero case. 90c:81169
- Braam, Peter J. (with Hurtubise, Jacques) Instantons on Hopf surfaces and monopoles on solid tori. 90f:32039
- Candelas, P. (with Green, Paul S.; Hübsch, Tristan) Finite distance between distinct Calabi-Yau manifolds. 90h:32052
- Catanese, F. Everywhere nonreduced moduli spaces. 90j:14013
- Carreau, Dominique (with Moussu, R.) Groupes d'automorphismes de $(C, 0)$ et équations différentielles $ydy + \dots = 0$. (English summary) [Groups of automorphisms of $(C, 0)$ and differential equations of the form $ydy + \dots = 0$] 90m:58192
- David, François Louis Sur l'entropie des surfaces aléatoires. (English summary) [On the entropy of random surfaces] 90c:81125
- Distler, Jacques (with Greene, B. R.; Kirkin, Kelley; Miron, Paul) Calculating endomorphism valued cohomology: singlet spectrum in superstring models. 90h:14061
- Friedan, D. The integrable analytic geometry of string theory and two-dimensional conformal field theory. (see 90h:00021)
- Goldman, William M. Geometric structures on manifolds and varieties of representations. 90e:57024
- Gómez-Mont, Xavier (with Kempf, George R.) Stability of meromorphic vector fields in projective spaces. 90d:14012
- Green, Paul S. (with Hübsch, Tristan) Connecting moduli spaces of Calabi-Yau threefolds. 90a:14050

- (with Hübsch, Tristan) Possible phase transitions among Calabi-Yau compactifications. 90c:53180
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- Greene, B. R. see Distler, Jacques; et al., 90b:14061
- Grimm, Richard see Baulieu, Laurent; et al., 90i:81101
- Hattori, Akio Corrections to: "Topology of the moduli space of SU(2)-instantons with instanton number 2" [J. Fac. Sci. Univ. Tokyo Sect. IA Math. 34 (1987), no. 3, 741–761; MR 89m:53134]. 90b:53094
- Huang, Chao Shang (with Zhao, Zhi Yong) Krichever-Novikov algebras and string theories on group manifolds. 90c:81194
- Hübsch, Tristan see Green, Paul S., 90a:14050; Candelas, P.; et al., 90b:53052 and Green, Paul S., 90c:53180
- Hurtubise, Jacques see Braam, Peter J., 90i:32039
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- Kirklin, Kelley see Distler, Jacques; et al., 90b:14061
- Kotschick, Dieter On manifolds homeomorphic to $CP^2 \# 8\overline{CP}^2$. 90a:57047
- Kutasov, David Geometry on the space of conformal field theories and contact terms. 90b:81131
- Lazarides, G. (with Shafr, Q.) Three generation superstring models with maximal discrete symmetries. 90c:14031
- Martin, Bernd (with Pfister, Gerhard) Singularities of moduli spaces. 90m:14004
- Matone, Marco see Bonora, L.; et al., 90b:81169
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- Miyajima, Kimio Kuranishi family of vector bundles and algebraic description of the moduli space of Einstein-Hermitian connections. 90b:32065
- Montano, David (with Sonnenschein, Jacob) The topology of moduli space and quantum field theory. 90b:81228
- Morrison, David R. On the moduli of Todorov surfaces. 90a:14051
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- Mukai, Shigeru Curves, K3 surfaces and Fano 3-folds of genus ≤ 10 . 90b:14039
- Nakamura, Keiichi On the isomonodromic deformation of certain Pfaffian systems associated to Appell's systems (F_2) , (F_3) . 90a:58006
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- Saito, Masa-Hiko Generic Torelli theorem for hypersurfaces in compact irreducible Hermitian symmetric spaces. 90d:32041
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- Shen, Chun Li On the holomorphic maps from Riemann surfaces to Grassmannians. 90c:58035
- Shvarts, A. S. Fermionic string and universal moduli space. 90d:58063
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- Myung, Y. S. $N = 2$ twisted supermodular transformation on a superporus. 90a:32028
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- Okumura, Yoshihide On the global real analytic coordinates for Teichmüller spaces. 90c:32071
- Pekonen, Osmo A short proof of a theorem of Ahlfors. 90b:32046
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- Sasaki, Takeshi (with Yoshida, Masaaki) Linear differential equations modeled after hyperquadrics. 90b:32050
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- Zacchini, R. A geometrical framework for twisted conformal field theory on Riemann surfaces. 90g:32027
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- (with Gómez, César; Reina, C.) New methods in string theory. 90j:81163b
- Arbarello, Enrico Riemann surfaces, theta functions and representations. (Italian) 90c:14025
- Awada, M. A. The cosmological constant of modular closed string field theory. I. 90b:81208
- Bagger, Jonathan Strings and Riemann surfaces. 90b:81179
- Baldassarri, F. (with Dwork, B.; Tivena, F.) On singular projective structures on Riemann surfaces. 90m:30058
- de Beer, Willem (with Rodrigues, João P.) Holomorphic factorization and open strings. 90a:15095
- Beilinson, A. A. (with Shekhtman, V. V.) Determinant bundles and Virasoro algebras. 90m:32048
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- Birman, Joan S. Mapping class groups of surfaces. 90g:57013
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- Bonora, L. (with Rinaldi, M.; Russo, Jorge; Wu, Ke) The Sugawara construction on genus- g Riemann surfaces. 90a:81112
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- Bujalance, E. (with Martínez, Ernesto) A remark on NEC groups representing surfaces with boundary. 90a:20094
- Carow-Watamura, U. (with Ezawa, Z. F.; Harada, Kuni; Tezuka, Akinori; Watamura, S.) Chiral bosonization of superconformal ghosts on the Riemann surface and path-integral measure. 90d:81107
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- Cohen, Frederick R. see Charney, R. M., 90a:55021
- Collins, Graham P. Comment on the use of doubled surfaces: "Involution-dependent constants and the cancellation of divergences in the one-loop open-string amplitude" [Phys. Rev. D (3) 38 (1988), no. 2, 569–577; MR 89h:81216] by G. Nagao. 90c:81167
- Cornalba, Maurizio The bosonic string from an algebro-geometric standpoint. 90j:81182
- Crnković, Č. (with Sotkov, G.; Stanishkov, M.) Minimal models on hyperelliptic surfaces. 90d:81109
- (with Sotkov, G.; Stanishkov, M.) Genus-two partition functions for superconformal minimal models. 90i:81106
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- Di Vecchia, P. (with Hornfeck, K.; Frau, M.; Lerda, A.; Sciuto, S.) Perturbative string theory in BRST invariant formalism. 90b:81223
- (with Pezzella, F.; Frau, M.; Hornfeck, K.; Lerda, A.; Sciuto, S.) N -point g -loop vertex for a free bosonic theory with vacuum charge Q . 90g:81224
- Donagi, Ron The Schottky problem. 90a:14041
- Dwork, B. see Baldassarri, F.; et al., 90m:30058
- Erkama, Timo Rational Riemann maps. 90b:30074
- Ezawa, Z. F. see Carow-Watamura, U.; et al., 90d:81107
- Felder, G. (with Silvotti, R.) Modular covariance of minimal model correlation functions. 90i:81116
- Frau, M. see Di Vecchia, P.; et al., 90b:81223 and 90g:81224
- Freedman, D. Z. (with Latorre, J. I.; Pilch, K.) Global aspects of the harmonic gauge in bosonic string theory. 90a:81123
- (with Pilch, K.) Thirring model partition functions and harmonic differentials. 90c:81179
- Gallo, Daniel M. Prescribed holonomy for projective structures on compact surfaces. 90a:57014
- Gardiner, Frederick P. On completing triangles in infinite-dimensional Teichmüller spaces. 90j:30036
- Gava, E. Riemann surfaces and string theory. 90b:81153

- Gerasimov, A. A. (with Morozov, A. Yu.) Conformal blocks of minimal models. 90b:81125
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- Gusevskii, N. A. Geometric decomposition of Kleinian groups in space. 90c:30078
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- Harvey, W. J. Modular groups and representation spaces. 90a:14037
- Holman, R. (with Sen, Siddhartha¹) Tori from spheres. An application of the string operator formalism. 90b:81210
- Hornfeck, K. *see* Di Vecchia, P.; et al., 90g:81223 and 90g:81224
- Humphries, Stephen P. Free products in mapping class groups generated by Dehn twists. 90c:57024
- Inami, Takao (with Kanno, Hiroaki; Kubota, Takahiro) Hexagon gauge anomaly and supermoduli in the path integral method of superstrings. 90b:81163
- Ivanov, N. V. The rank of Teichmüller modular groups. 90c:22015
- Jahlow, Eric Robert. An analogue of the Rauch variational formula for Prym differentials. 90f:30056
- Jørgensen, Troels (with Marden, Albert) Kleinian groups with quotients of finite volume. 90c:22032
- Jost, J. Harmonic maps—analytic theory and geometric significance. 90b:58052
- Kanno, Hiroaki. *see* Inami, Takao; et al., 90b:81163
- Kato, Takao. Subspaces of trigonal Riemann surfaces. 90c:14013
- Killingback, T. P. Quantum Yang-Mills theory on Riemann surfaces and conformal field theory. 90c:53080
- Kirschner, R. Boundary reparametrizations as additional moduli for the string propagator. 90b:81167
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- Kur'mina, G. V. On extremal properties of quadratic differentials with end domains in the structure of trajectories. (Russian) 90j:30037
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- Primicerio, Angela Selvaggi *see* Dini, Gilberto, 90i:32036
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- Bedford, E. (with Pinchuk, S. I.) Analytic continuation of biholomorphic maps. 90b:32026
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- Sheu, Albert Jeu-Liang *see* Salinas, Norberto; et al., 90f:47036
- Upmeyer, Harald *see* Salinas, Norberto; et al., 90f:47036
- Varouchas, J. *see* Bariet, Daniel, 90m:32023
- Zhou, Xiang Yu Embedding strictly pseudoconvex domains into balls. (Chinese) 90i:32022

32H99 None of the above, but in this section

- Berenstein, Carlos A. (with Yger, Alain) Analytic Bezout identities. 90b:32051
- Chinak, M. A. A weak hyperbolic measure and regular mappings of affine manifolds. (Russian) 90j:32030
- Frankel, Sidney Complex geometry of convex domains that cover varieties. 90i:32037
- Kizuka, Takashi (with Matsumoto, Mitsuo) On meromorphic mappings of Poincaré type of two complex variables. 90j:32031
- Kubicka, Ewa (with Poreda, Tadeusz) On the parametric representation of starlike maps of the unit ball in C^n into C^n . 90g:32031
- Matsumoto, Mitsuo *see* Kizuka, Takashi, 90j:32031
- Poreda, Tadeusz *see* Kubicka, Ewa, 90g:32031
- Yger, Alain *see* Berenstein, Carlos A., 90b:32051

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- Abe, Kinetsu (with Magid, M. A.) Complex analytic curves and maximal surfaces. 90j:53006
- Dethloff, Gerd-E. On essential singularities of meromorphic mappings. 90a:32020
- Dillen, Franki (with Vrancken, Luc) Complex affine hypersurfaces of C^{n+1} . I. 90i:53010
- Erkama, Timo Rational Riemann maps. 90i:30074
- (Favorov, S. Yu.) *see* Lelong, Pierre, 90i:32002
- Gruzman, L. *see* Lelong, Pierre, 90i:32002
- Kuczumow, T. Fixed points of holomorphic mappings in the Hilbert ball. 90f:47088
- Lelong, Pierre (with Gruzman, L.) * Целые функции многих комплексных переменных. (Russian) [Entire functions of several complex variables] 90i:32002
- Magid, M. A. *see* Abe, Kinetsu, 90j:53006
- Mok, Ngaiming Strong rigidity of irreducible quotients of polydiscs of finite volume. 90k:32040
- Patrizio, Giorgio Homogeneous polynomials and complex Monge-Ampère equations. (Italian summary) 90f:32022
- Pinchuk, S. I. (with Tsyganov, Sh. I.) Smoothness of CR-mappings of strictly pseudoconvex hypersurfaces. (Russian) 90j:32022
- Reich, Ludwig Über ein Problem von J. Schwaiger und Z. Moszner betreffend die Vertauschbarkeit von einparametrischen Automorphismengruppen formaler Potenzreihenringe. (English summary) [On a problem of J. Schwaiger and Z. Moszner concerning the exchangeability of one-parameter automorphism groups of rings of formal power series] 90i:13013
- Reich, Simeon Fixed point theory in Hilbert ball. 90f:47087
- (Ronkin, L. I.) *see* Lelong, Pierre, 90i:32002
- (Russakovskii, A. M.) *see* Lelong, Pierre, 90i:32002
- Sakurai, Kouichi (with Yoshida, Masaaki) Fuchsian systems associated with the $P^2(F_2)$ -arrangement. 90j:32015
- Shen, Chun Li On the holomorphic maps from Riemann surfaces to Grassmannians. 90c:58035
- Shiffman, Bernard Degree bounds for the division problem in polynomial ideals. 90h:13009
- Tsyganov, Sh. I. *see* Pinchuk, S. I., 90j:32022
- Vesentini, Edoardo Holomorphic semigroups of holomorphic isometries. (Italian summary) 90k:32077
- Vrancken, Luc *see* Dillen, Franki, 90i:53010
- Włodarczyk, Kazimierz The angular derivative of Fréchet-holomorphic maps in J^* -algebras and complex Hilbert spaces. 90c:46066
- Yoshida, Masaaki *see* Sakurai, Kouichi, 90j:32015

32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx.}

32J05 Compactification

- Mok, Ngaiming (with Zhong, Jia Qing) Compactifying complete Kähler-Einstein manifolds of finite topological type and bounded curvature. 90d:32045
- Compactification of complete Kähler surfaces of finite volume satisfying certain curvature conditions. 90f:32028
- Opata, Shoetsu Non-Kähler manifolds and ball-product cusp singularities. 90i:32038
- Peternell, Thomas Compactifications of C^3 . II. 90b:32052

Yeung, Sai-Kei Compactification of complete Kähler surfaces with negative Ricci curvature. 90k:32083

Zhong, Jia Qing *see* Mok, Ngaiming, 90d:32045

Items with secondary classifications in 32J05

Caldi, D. G. Aspects of string theory. 90c:81160

Gepner, Doron The exact structure of Calabi-Yau compactification. 90k:83089

Green, Paul S. (with Hübsch, Tristan) Possible phase transitions among Calabi-Yau compactifications. 90c:53180

Harvey, Jeffrey A. Lectures on heterotic string and orbifold compactifications. (*see* 90k:81004)

Hatada, Kazuyuki Correspondences for Hecke rings and l -adic cohomology groups on smooth compactifications of Siegel modular varieties. 90j:11036

Hübsch, Tristan Manifold compactification of superstrings. 90m:81109

— *see also* Green, Paul S., 90c:53180

Kalara, Sunil (with Lykken, Joseph) New Calabi-Yau manifolds from weighted hypersurfaces and nonminimal $N = 2$ superconformal models. 90k:14040

Lazarides, G. (with Shafi, Q.) More on the classification of three generation superstring models. 90k:81219

Lykken, Joseph *see* Kalara, Sunil, 90k:14040

Lyner, Monika (with Schimmrigk, R.) On the spectrum of $(2, 2)$ compactification of the heterotic string on conformal field theories. 90c:81200

Markushevich, D. G. (with O'Flanetaki, M. A.; Perelomov, A. M.) Ricci-flat compactifications in the theory of superstrings, and Coxeter automorphisms. I. 90m:83095

— (with O'Flanetaki, M. A.; Perelomov, A. M.) Ricci-flat compactifications in the theory of superstrings, and Coxeter automorphisms. II. 90m:83096

Mok, Ngaiming Compactification of complete Kähler-Einstein manifolds of finite volume. 90j:53065

Narain, K. S. Toroidal and orbifold compactification of heterotic string. 90i:81140

van Nieuwenhuizen, P. *see* Pope, C. N., 90d:53057

Oda, Takayuki (with Schwermer, Joachim) Mixed Hodge structures and automorphic forms for Siegel modular varieties of degree two. 90m:11072

O'Flanetaki, M. A. *see* Markushevich, D. G.; et al., 90m:83095 and 90m:83096

Perelomov, A. M. *see* Markushevich, D. G.; et al., 90m:83095 and 90m:83096

Pope, C. N. (with van Nieuwenhuizen, P.) Compactifications of $d = 11$ supergravity on Kähler manifolds. 90d:53057

Schimmrigk, R. *see* Lyner, Monika, 90c:81200

Schwermer, Joachim *see* Oda, Takayuki, 90m:11072

Shafi, Q. *see* Lazarides, G., 90k:81219

32J10 Algebraic dependence theorems

Items with secondary classifications in 32J10

Campana, F. Espaces de twisteurs dont l'espace des cycles a ses composantes irréductibles compactes. (English summary) [Twistor spaces whose cycle space has compact irreducible components] 90c:32022

32J15 Compact surfaces

Mukai, Shigeru Finite groups of automorphisms of $K3$ surfaces and the Mathieu group. 90k:2053

Nishiguchi, Kenji Canonical bundles of analytic surfaces of class VII₀. 90g:32032

Toma, Matei A class of nonalgebraic threefolds. (French summary) 90k:32084

Yokura, Shoji On a generalization of MacPherson's Chern homology class. 90m:32044

Yuan, Hui Shih On the generalization of Kummer surfaces. 90j:32032

Items with secondary classifications in 32J15

Candelas, P. Lectures on complex manifolds. 90i:32001

— (with Lütken, C. A.; Schimmrigk, R.) Complete intersection Calabi-Yau manifolds. II. Three generation manifolds [Nuclear Phys. B 306 (1988), no. 1, 113–136; MR 89g:35102]. (*see* 90g:32004)

Guan, Zhuang Dan *see* Hong, Yi et al., 90c:53171

Hong, Yi (with Guan, Zhuang Dan; Yang, Hong Cang) A remark on Kähler-Einstein manifolds. (Chinese) 90c:53171

Hulek, K. (with Weintraub, Steven H.) Bielliptic abelian surfaces. 90b:14052

Kato, Tomohisa On the intersection homology group of an analytic space of dimension 2. 90c:32013

Kawazumi, Nariya Folding surface bundles of genus 2. 90f:57031

Kogan, Ya. I. (with Markushevich, D. G.; Morozov, A. Yu.; O'Flanetaki, M. A.; Perelomov, A. M.; Rosly, A. A.) Some examples of instantons in sigma models. $K3$ manifolds. 90j:14043

Kotschick, Dieter On manifolds homeomorphic to $CP^2 \# 8CP^2$. 90a:57047

Kuleshov, S. A. A theorem on the existence of exceptional bundles on surfaces of type $K3$. 90d:14018

Lindström, U. (with Roček, M.) New hyper-Kähler metrics and new supermultiplets. 90b:53056

Lütken, C. A. A large class of Calabi-Yau vacua. 90m:14049

— *see also* Candelas, P.; et al., (90g:32004)

Markushevich, D. G. *see* Kogan, Ya. I.; et al., 90j:14043

Moriwaki, Atsushi Semi-ampleness of the numerically effective part of Zariski decomposition. II. 90b:14040

Morozov, A. Yu. *see* Kogan, Ya. I.; et al., 90j:14043

Mukai, Shigeru Curves, $K3$ surfaces and Fano 3-folds of genus ≤ 10 . 90b:14039

Nakamura, Iku Threefolds homeomorphic to a hyperquadric in P^4 . 90m:32045

Naruki, Isao $K3$ surfaces related to root systems in E_8 . 90d:14040

Neeman, Amnon Ueda theory: theorems and problems. 90d:32030

Okawa, Masaki *see* Tsuboi, Syoji, 90f:32024

Okonek, Christian Fake Enriques surfaces. 90c:57062

— (with Van de Ven, A.) Γ -type-invariants associated to $PU(2)$ -bundles and the differentiable structure of Barlow's surface. 90a:57048

O'Flanetaki, M. A. *see* Kogan, Ya. I.; et al., 90j:14043

Pardon, William The L_2 - $\bar{\partial}$ -cohomology of an algebraic surface. 90i:32014

Perelomov, A. M. *see* Kogan, Ya. I.; et al., 90j:14043

Roček, M. *see* Lindström, U., 90b:53056

Rosly, A. A. *see* Kogan, Ya. I.; et al., 90j:14043

Saito, Kyuji Algebraic surfaces for regular systems of weights. 90a:14054

Schimmrigk, R. *see* Candelas, P.; et al., (90g:32004)

Tsal, I-Hsun Negatively curved metrics on Kodaira surfaces. 90b:32058

Tsuboi, Syoji A theorem on the existence of a maximal analytic family of surfaces with ordinary singularities in the projective 3-space. 90g:32025

— (with Okawa, Masaki) Some results on the local moduli of nonsingular normalizations of surfaces with ordinary singularities. 90f:32024

Van de Ven, A. *see* Okonek, Christian, 90a:57048

Vila Frey, Ricardo Francisco Automorphisms of complex compact surfaces. (Spanish) 90c:32044

Weintraub, Steven H. *see* Hulek, K., 90b:14052

Wolfson, J. G. Minimal surfaces in Kähler surfaces and Ricci curvature. 90d:53073

Yang, Hong Cang *see* Hong, Yi et al., 90c:53171

32J20 Algebraicity criteria

Nakamura, Iku Threefolds homeomorphic to a hyperquadric in P^4 . 90m:32045

Poon, Y. Sun Algebraic dimension of twistor spaces. 90f:32029

Tung, Chia Chi On the projective embeddability of compact complex manifolds. 90b:32054

Items with secondary classifications in 32J20

Mok, Ngaiming (with Zhong, Jia Qing) Compactifying complete Kähler-Einstein manifolds of finite topological type and bounded curvature. 90d:32045

Peternell, Thomas Singular surfaces and the rigidity of P_3 . 90a:14008

Zhong, Jia Qing *see* Mok, Ngaiming, 90d:32045

32J25 Transcendental methods of algebraic geometry

[*see also* 14C30]

Ohsawa, Takeo An extension of Hodge theory to Kähler spaces with isolated singularities of restricted type. 90m:32046

Items with secondary classifications in 32J25

Bozhkov, Yuri Dimitrov A construction of almost anti-self-dual connections on Kummer surfaces. 90c:53116

Carlson, James A. (with Kasparian, Azniv; Toledo, Domingo) Variations of Hodge structure of maximal dimension. 90b:14015

Enoki, Ichiro Stability and negativity for tangent sheaves of minimal Kähler spaces. 90a:32039

Gieres, F. BRS invariant gauge fixing of local and global zero modes in superstring theory. 90c:81190

Hirzebruch, Friedrich Elliptic genera of level N for complex manifolds. 90m:57030

Hoffman, Jerome William On Kollár's vanishing theorems. I. 90k:14005

Kasparian, Azniv *see* Carlson, James A.; et al., 90b:14015

Kollár, János Flops. 90i:14011

Konno, Kazuhiro Generic Torelli theorem for hypersurfaces of certain compact homogeneous Kähler manifolds. 90k:32072

Lescure, F. Sur les compactifications équivariantes des groupes commutatifs. (English summary) [Equivariant compactifications of commutative groups] 90f:32032

Moishezon, B. (with Teicher, M.) Braid group technique in complex geometry. I. Line arrangements in CP^2 . 90f:32014

Nakayama, Noboru On Weierstrass models. 90m:14030

Teicher, M. *see* Moishezon, B., 90f:32014

Toledo, Domingo *see* Carlson, James A.; et al., 90b:14015

Wilson, P. M. H. Calabi-Yau manifolds with large Picard number. 90b:14044

32J99 None of the above, but in this section

Delanoë, Ph. (with Hirschowitz, André) About the proofs of Calabi's conjectures on compact Kähler manifolds. 90g:32033

Fujimoto, Yoshio Pluricanonical divisors of elliptic fiber spaces. 90a:32037

Hirschowitz, André *see* Delanoë, Ph., 90g:32033

Items with secondary classifications in 32J99

Balog, J. (with Tuite, Michael P.) The failure of Atkin-Lehner symmetry for lattice compactified strings. 90k:81181

Blok, B. Yu. A nonrenormalization theorem for a superpotential on $K3$ surfaces. 90a:81084

Clemens, Herbert (with Kollár, János; Mori, Shigefumi) Higher-dimensional complex geometry. (French summary) 90j:14046

Friedman, Robert David (with Morgan, John W.) Complex versus differentiable classification of algebraic surfaces. 90f:57039

Futaki, Akito \star Kähler-Einstein metrics and integral invariants. 90a:53053

Green, Paul S. (with Hübsch, Tristan; Lütken, C. A.) All the Hodge numbers for all Calabi-Yau complete intersections. 90b:14067

Gurjar, R. V. Coverings of algebraic varieties. 90i:14012

Hübsch, Tristan *see* Green, Paul S.; et al., 90b:14067

Kalara, Sunil (with Lykken, Joseph) New Calabi-Yau manifolds from weighted hypersurfaces and nonminimal $N = 2$ superconformal models. 90k:14040

Kim, Jae Kwan (with Park, Chung Joo; Yoon, Yongsung) Calabi-Yau manifolds from $N = 2$ Landau-Ginzburg superconformal theories. 90j:14049

Kobayashi, Ryūichi (with Nakamura, Shu; Sakai, Fumio) A numerical characterization of ball quotients for normal surfaces with branch loci. 90k:32034

Kollár, János *see* Clemens, Herbert; et al., 90j:14046

- Lazarides, G. (with Shaf, Q.) Three generation superstring models with maximal discrete symmetries. 90c:14031
- Lütken, C. A. see Green, Paul S.; et al., 90h:14067
- Lykken, Joseph see Kalara, Sunil, 90k:14040
- Meeks, William H., III Regularity of the Albanese map for nonorientable surfaces. 90f:14028
- Morgan, John W. see Friedman, Robert David, 90f:57039
- Mori, Shigefumi see Clemens, Herbert; et al., 90j:14046
- Nakamura, Shu² see Kobayashi, Ryoichi; et al., 90k:32034
- Park, Chung Joo see Kim, Jae Kwan; et al., 90j:14049
- Rusjan, E. (with Senjanović, G.; Šokorac, A.) Calabi-Yau manifold of four generations. 90h:14070
- Sakai, Fumio see Kobayashi, Ryoichi; et al., 90k:32034
- Sankaran, G. K. A class of non-Kähler complex manifolds. 90f:32011
- Senjanović, G. see Rusjan, E.; et al., 90h:14070
- Sertöz, Sinan C^* -actions on Grassmann bundles and the cycle at infinity. 90f:32035
- Shaf, Q. see Lazarides, G., 90c:14031
- Shapere, Alfred (with Wilczek, Frank) Self-dual models with theta terms. 90k:81170
- Šokorac, A. see Rusjan, E.; et al., 90h:14070
- Tanji, Hajime Stability of tangent bundles of minimal algebraic varieties. 90d:14021
- Tuite, Michael P. see Balog, J., 90k:81181
- Wilczek, Frank see Shapere, Alfred, 90k:81170
- Yoon, Yongsung see Kim, Jae Kwan; et al., 90j:14049

32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)

32K05 Banach analytic spaces [see also 58Bxx]

Items with secondary classifications in 32K05

- Larotonda, Angel (with Zalduendo, Ignacio) Homogeneous spectral sets and local-global methods in Banach algebras. 90a:46126
- Zalduendo, Ignacio see Larotonda, Angel, 90a:46126

32K10 Non-Archimedean analytic spaces

- Liu, Qing Ouverts analytiques d'une courbe algébrique en géométrie rigide. [Analytic open subsets of an algebraic curve in rigid geometry] 90f:32030

Items with secondary classifications in 32K10

- Chiarellotto, Bruno A comparison theorem in p -adic cohomology. 90i:14020
- Lütkebohmert, Werner Formal-algebraic and rigid-analytic geometry. 90m:14015
- Morita, Yasuo A p -adic theory of hyperfunctions. II. 90j:32012

32K15 Differentiable functions on analytic spaces, differentiable spaces [see also 58C25]

- Reichard, K. (with Spallek, K.) Product singularities and quotients. 90d:32046
- Spallek, K. see Reichard, K., 90d:32046

Items with secondary classifications in 32K15

- Nguyen Dinh Sang (with Nguyễn Văn Khuê) Mixed spaces. 90c:32038
- Nguyễn Văn Khuê see Nguyen Dinh Sang, 90c:32038
- Reichard, K. (with Spallek, K.) Product singularities and quotients of linear groups. 90c:58018
- Spallek, K. Foliations on singularities. 90a:57044
- see also Reichard, K., 90c:58018

32K99 None of the above, but in this section

- Jurchescu, Martin Relative Runge domains. 90c:32055
- Nguyen Dinh Sang (with Nguyễn Văn Khuê) Mixed spaces. 90c:32038
- Nguyễn Văn Khuê see Nguyen Dinh Sang, 90c:32038

32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic fiber bundles and generalizations

- Abate, Marco Annular bundles. 90c:32031
- Birchall, L. B. Remarks on the structure of the space of regular algebraic homogeneous mappings. (Russian) 90m:32047
- Camacho, César Quadratic forms and holomorphic foliations on singular surfaces. 90b:32056
- Cervoni, Dominique Feuilletages réglés. (English summary) [Ruled foliations] 90a:32038
- Mihal, Alexandru Sur les connexions cohomologiques. [On cohomological connections] 90k:32085
- Ōike, Hiroshi Holomorphic tangent bundles and normal bundles of complex submanifolds of complex projective spaces. 90k:32086
- Ramanathan, Annamalai (with Subramanian, Swaminathan) Einstein-Hermitian connections on principal bundles and stability. 90b:32057
- Sertöz, Sinan Residues of singular holomorphic foliations. 90b:32057
- Subramanian, Swaminathan see Ramanathan, Annamalai, 90b:32057
- Takhtadzhyan, L. A. see Zograf, P. G., 90j:32033
- Yang, Jae-Hyun Holomorphic vector bundles over complex tori. 90k:32087

- Zograf, P. G. (with Takhtadzhyan, L. A.) The geometry of moduli spaces of vector bundles over a Riemann surface. 90j:32033

Items with secondary classifications in 32L05

- Abe, Yukitaka On toroidal groups. 90j:32035
- Homomorphisms of toroidal groups. 90j:32036
- Homogeneous line bundles over a toroidal group. 90k:32090
- Alvarez Gaumé, Luis Topological methods in string perturbation theory. 90k:81173
- Aroca Hernández-Ros, José M. Results of F. Cano on Thom's conjecture. (Spanish. English summary) 90c:57020
- Bhosle, Usha (with Ramanathan, Annamalai) Moduli of parabolic G -bundles on curves. 90k:14018
- Blazie, N. On almost Einstein holomorphic vector bundles over Hermitian surfaces. 90m:53061
- Brylinski, Jean-Luc Heights for local systems on curves. 90i:11066
- Cano, Felipe Equidimensionalization for plane vector fields. (Spanish. English summary) 90j:32029
- Réduction des singularités des feuilletages holomorphes. (English summary) [Reduction of the singularities of holomorphic foliations] 90j:32015
- Chaperon, Marc Invariant manifolds and a preparation lemma for local holomorphic flows and actions. 90c:58151
- Gromov, Mikhael L. Oka's principle for holomorphic sections of elliptic bundles. 90j:32017
- Ivashkevich, S. M. A Thullen-type extension theorem for line bundles with L^2 -bounded curvature. 90c:32033
- Kawazumi, Nariya Folding surface bundles of genus 2. 90f:57031
- Manaresi, Mirella Ruled threefolds homeomorphic to $P^2 \times P^1$ and their divisors. 90j:14023
- Mason, L. J. (with Sparling, G. A. J.) Nonlinear Schrödinger and Korteweg-de Vries are reductions of self-dual Yang-Mills. 90d:58169
- Masterson, John T. Branched affine and projective structures on compact Riemann surfaces. 90k:30051
- Murray, M. K. Stratifying monopoles and rational maps. 90j:32032
- Nitta, Takashi Moduli spaces of Yang-Mills connections over quaternionic Kähler manifolds. 90i:53091
- Ramadas, T. R. (with Singer, I. M.; Weitsman, J.) Some comments on Chern-Simons gauge theory. 90m:58218
- Ramanathan, Annamalai see Bhosle, Usha, 90k:14018
- Salinas, Norberto The Grassmann manifold of a C^* -algebra, and Hermitian holomorphic bundles. 90a:46187
- Singer, I. M. see Ramadas, T. R.; et al., 90m:58218
- Sparling, G. A. J. see Mason, L. J., 90d:58169
- Tanji, Hajime Stability of tangent bundles of minimal algebraic varieties. 90d:14021
- Weitsman, J. see Ramadas, T. R.; et al., 90m:58218

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 18F20, 55N30]

- Bellinson, A. A. (with Shekhtman, V. V.) Determinant bundles and Virasoro algebras. 90m:32048
- Bismut, Jean-Michel Localisation du caractère de Chern en géométrie complexe et superconnexions. (English summary) [Localization of the Chern character in complex geometry and superconnections] 90c:32039
- (with Gillet, Henri; Soulé, Christophe) Classes caractéristiques secondaires et immersions en géométrie complexe. (English summary) [Secondary characteristic classes and immersions in complex geometry] 90c:32040
- Braam, Peter J. (with Hurtubise, Jacques) Instantons on Hopf surfaces and monopoles on solid tori. 90j:32039
- Chinak, M. A. Curvature and linear subbundles of holomorphic vector bundles. 90k:32088
- Enoki, Ichiro Stability and negativity for tangent sheaves of minimal Kähler spaces. 90a:32039
- Esnauli, Hélène Characteristic classes of flat bundles. 90j:32040
- Gillet, Henri see Bismut, Jean-Michel; et al., 90c:32040
- Hurtubise, Jacques see Braam, Peter J., 90j:32039
- Sehbar, A. Principe d'Oka-Grauert dans A^∞ . [The Oka-Grauert principle in A^∞] 90i:32041
- Shekhtman, V. V. see Bellinson, A. A., 90m:32048
- Soulé, Christophe see Bismut, Jean-Michel; et al., 90c:32040

Items with secondary classifications in 32L10

- Bismut, Jean-Michel (with Bost, Jean-Benoît) Fibrés déterminants, métriques de Quillen et dégénérescence des courbes. (English summary) [Determinant line bundles, Quillen metrics and degenerating curves] 90a:58162
- Complexe de Koszul, oscillateur harmonique et classe de Todd. (English summary) [Koszul complexes, harmonic oscillators and the Todd class] 90c:58147
- Bost, Jean-Benoît Fibrés déterminants, déterminants régularisés et mesures sur les espaces de modules des courbes complexes. [Determinant bundles, regularized determinants and measures on the moduli spaces of complex curves] 90d:58142
- see also Bismut, Jean-Michel, 90a:58162
- Bott, Raoul The topological constraints on analysis. 90j:01034
- Camacho, César (with Lins Neto, A.; Sad, P.) Minimal sets of foliations on complex projective spaces. 90c:58129
- Fujimoto, Yoshio Pluricanonical divisors of elliptic fiber spaces. 90a:32037
- Gillet, Henri (with Soulé, Christophe) Amplitude arithmétique. (English summary) [Arithmetic ampleness] 90a:14028
- Gómez-Mont, Xavier (with Kempf, George R.) Stability of meromorphic vector fields in projective spaces. 90d:14012
- Green, Paul S. (with Hübsch, Tristan; Lütken, C. A.) All the Hodge numbers for all Calabi-Yau complete intersections. 90h:14067
- Hattori, Akiyo Corrections to: "Topology of the moduli space of $SU(2)$ -instantons with instanton number 2" [J. Fac. Sci. Univ. Tokyo Sect. 1A Math. 34 (1987), no. 3, 741-761;

- MR 89m:53134]. 90b:53094
 Helminck, G. F. Matrix hierarchies and vector bundles over Riemann surfaces. 90c:32042
 Hübisch, Tristan *see* Green, Paul S.; et al., 90b:14067
 Kahn, Constantin P. M. ★ Reflexive Moduln auf einfach-elliptischen Flächensingularitäten. (German) [Reflexive modules over simply elliptic surface singularities] 90b:14045
 Kashiwara, Masaki Representation theory and D -modules on flag varieties. 90k:17029
 Kempf, George R. *see* Gómez-Mont, Xavier, 90d:14012
 Kronheimer, P. B. The construction of ALE spaces as hyper-Kähler quotients. 90d:53055
 — A Torelli-type theorem for gravitational instantons. 90d:53056
 Levi, Roni N. Spectral theory of commuting operators and K -theory. (Russian. English summary) 90k:58218
 Lins Neto, A. *see* Camacho, César; et al., 90e:58129
 Lütken, C. A. *see* Green, Paul S.; et al., 90b:14067
 Rakowski, Mark (with Thompson, George) Connections on vector bundles over super Riemann surfaces. 90f:53058
 Sad, P. *see* Camacho, César; et al., 90e:58129
 Schmid, Wilfried Homogeneous complex manifolds and representations of semisimple Lie groups. 90i:22025
 Snow, Dennis M. Homogeneous vector bundles. 90m:14051
 — Spanning homogeneous vector bundles. 90c:32036
 Soule, Christophe *see* Gillet, Henri, 90a:14028
 Subramanian, Swaminathan Mumford's example and a general construction. 90k:14014
 Takhtadzhyan, L. A. *see* Zograf, P. G., 90b:58254
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 Toma, Matei A class of nonalgebraic threefolds. (French summary) 90k:32084
 Zierau, Roger A construction of harmonic forms on $U(p+1, q)/U(p, q) \times U(1)$. 90b:22019
 Zograf, P. G. (with Takhtadzhyan, L. A.) A local index theorem for families of $\bar{\partial}$ -operators on Riemann surfaces. (Russian) 90b:58254
 Zecchini, R. A geometrical framework for twisted conformal field theory on Riemann surfaces. 90g:32027

32L15 Bundle convexity [see also 32F10]

- Tsai, I-Hsun Negatively curved metrics on Kodaira surfaces. 90b:32058

Items with secondary classifications in 32L15

- Chinak, M. A. Curvature and linear subbundles of holomorphic vector bundles. 90k:32088
 Enoki, Ichiro Stability and negativity for tangent sheaves of minimal Kähler spaces. 90a:32039
 Koiso, Norihito (with Sakane, Yusuke) Nonhomogeneous Kähler-Einstein metrics on compact complex manifolds. II. 90e:53061
 Sakane, Yusuke *see* Koiso, Norihito, 90e:53061
 Simpson, Carlos T. Constructing variations of Hodge structure using Yang-Mills theory and applications to uniformization. 90e:58026
 Takhtadzhyan, L. A. *see* Zograf, P. G., 90b:58254
 Uhlenbeck, K. (with Yau, S.-T.) A note on our previous paper: "On the existence of Hermitian-Yang-Mills connections in stable vector bundles" [Comm. Pure Appl. Math. 39 (1986), S257-S293; MR 88i:58154]. 90i:58029
 Viehweg, Eckart Weak positivity and the stability of certain Hilbert points. 90i:14037
 Yau, S.-T. *see* Uhlenbeck, K., 90i:58029
 Zograf, P. G. (with Takhtadzhyan, L. A.) The geometry of moduli spaces of vector bundles over a Riemann surface. 90j:32033

32L20 Vanishing theorems

- Demailly, Jean-Pierre Une généralisation du théorème d'annulation de Kawamata-Viehweg. (English summary) [A generalization of the Kawamata-Viehweg vanishing theorem] 90c:32032

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- Guillén, F. (with Navarro Aznar, V.; Pascual Gainza, P.; Puerta Sales, Fernando) ★ Hyperrésolutions cubiques et descente cohomologique. (French) [Cubic hyperresolutions and cohomological descent] 90a:14024
 Hoffman, Jerome William On Kollár's vanishing theorems. I. 90k:14005
 Magnusson, Jón Singularités polaires et points de Weierstrass en codimension plus grande que un. [Polar singularities and Weierstrass points in codimension greater than one] 90d:32022
 Nadel, Alan Michael Multiplier ideal sheaves and existence of Kähler-Einstein metrics of positive scalar curvature. 90k:32061
 Nakayama, Noboru On Weierstrass models. 90m:14030
 Navarro Aznar, V. Théorèmes d'annulation. [Vanishing theorems] (see 90a:14024)
 — *see also* Guillén, F.; et al., 90a:14024
 Pascual Gainza, P. *see* Guillén, F.; et al., 90a:14024
 Puerta Sales, Fernando *see* Guillén, F.; et al., 90a:14024
 Sebbar, A. Principe d'Oka-Grauert dans A^{∞} . [The Oka-Grauert principle in A^{∞}] 90i:32041

32L25 Twistor theory, double fibrations

- Eastwood, Michael The Penrose transform for curved ambitwistor space. 90b:32058
 Nakashima, Martin M. Singletons and twistors. 90d:32047
 Niederle, Jiri Twistors—"spinors" of $SU(2, 2)$, their generalizations and achievements. 90b:32059
 Tzanov, Vasil V. Moduli of twistor spaces. (see 90i:00004)
 Ward, R. S. Twistors in $2+1$ dimensions. 90k:32089

Items with secondary classifications in 32L25

- Campana, F. Espaces de twisteurs dont l'espace des cycles a ses composantes irréductibles compactes. (English summary) [Twistor spaces whose cycle space has compact irreducible components] 90c:32022
 Cederwall, Martin An extension of the twistor concept to string theory. 90b:81136

- Donaldson, S. (with Friedman, Robert David) Connected sums of self-dual manifolds and deformations of singular spaces. 90c:32027
 Eisenberg, Yeshayahu Toward interacting (super)field theories from (super)twistors. 90g:81227
 Friedman, Robert David *see* Donaldson, S., 90c:32027
 Gaidis, Ya. Ya. Rational curves on the Grassmannian $G_{4,3}$. 90g:14035
 Gindikin, S. G. Horospheres and twistors. 90g:22013
 — Integral geometry for complexes of rational curves. 90k:53109
 Gover, Rod Conformally invariant operators of standard type. 90k:58254
 Guest, M. A. The energy of harmonic maps obtained by the twistor construction. 90d:58034
 Harnad, J. (with Hurtubise, Jacques; Shnider, S.) Supersymmetric Yang-Mills equations and super-twistors. 90i:81071
 Harnett, Gerald Twistors for uniform acceleration. 90k:81093
 Hodges, A. P. (with Penrose, Roger; Singer, Michael A.) A twistor conformal field theory for four space-time dimensions. 90i:81203
 Hughston, L. P. Applications of Cartan spinors to differential geometry in higher dimensions. 90b:53016
 Hurtubise, Jacques *see* Harnad, J.; et al., 90i:81071
 Kronheimer, P. B. On self-dual Einstein manifolds. 90c:53117
 LeBrun, Claude Quaternionic-Kähler manifolds and conformal geometry. 90c:53062
 Manin, Yu. I. Supersymmetry and supergravity in the superspace of null supergeodesics. 90a:58009
 Mantini, Lisa A. An L^2 -cohomology construction of negative spin mass zero equations for $U(p, q)$. 90c:22040
 Merkulov, S. A. Twistors and conformally invariant fields. 90b:53095
 — A conformal nonlinear graviton. (Russian) 90j:83041
 — Local super-twistors and $N=2$ conformal supergravity. 90i:83006
 Musso, Emilio On the twistor space of the six-sphere. 90b:53052
 Penrose, Roger *see* Hodges, A. P.; et al., 90i:81203
 Perjés, Z. Twistor internal symmetry groups. 90i:81183
 Poon, Y. Sun Algebraic dimension of twistor spaces. 90k:32029
 Sekigawa, K. Almost Hermitian structures on twistor bundles. 90d:53084
 Shnider, S. (with Wells, R. O., Jr.) ★ Supermanifolds, super twistor spaces and super Yang-Mills fields. 90b:58005
 — *see also* Harnad, J.; et al., 90i:81071
 Singer, Michael A. *see* Hodges, A. P.; et al., 90i:81203
 Šťovíček, P. ★ On the initial condition for instanton solutions. 90g:53037
 Urbanik, H. Local differential geometry of null curves in conformally flat space-time. 90k:53046
 Verdier, Jean-Louis Applications harmoniques de S^2 dans S^4 . II. [Harmonic mappings from S^2 into S^4 . II] 90e:58036
 Volkov, D. V. (with Zheltukhin, A. A.) Extension of the Penrose representation and its use to describe supersymmetric models. 90d:32027
 Volovich, I. V. Constraint equations in supersymmetric gauge theories and vector bundles over twistors. 90b:53097
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 Zheltukhin, A. A. *see* Volkov, D. V., 90d:32027

32L99 None of the above, but in this section

- Ivashkovich, S. M. A Thullen-type extension theorem for line bundles with L^2 -bounded curvature. 90c:32033

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- Andrzejczak, Grzegorz Characteristic homomorphism for transversely holomorphic foliations via the Cauchy-Riemann equations. 90c:70119
 Bontet de Monvel, L. Le théorème de l'indice relatif. [The relative index theorem] 90i:58141
 Camacho, César (with Sad, P.) ★ Pontos singulares de equações diferenciais analíticas. (Portuguese) [Singular points of analytic differential equations] 90a:58126
 — (with Cano, Felipe; Sad, P.) Absolutely isolated singularities of holomorphic vector fields. 90i:58153
 Cano, Felipe ★ Desingularization strategies for three-dimensional vector fields. 90i:32020a
 — ★ Desingularization strategies for three-dimensional vector fields. 90i:32020b
 — *see also* Camacho, César; et al., 90i:58153
 Chung, Chi-Keung Hermitian metrics of negative holomorphic sectional curvature on some hyperbolic manifolds. 90d:32043
 Duchamp, T. (with Kalka, M.) The equivalence problem for complex foliations of complex surfaces. 90k:32032
 Garland, H. (with Murray, M. K.) Why instantons are monopoles. 90c:53179
 Gómez-Mont, Xavier (with Muciño, J.) Persistent cycles for holomorphic foliations having a meromorphic first integral. 90b:58220
 — (with Sundararaman, Duraiswami) Remarks on the versal families of deformations of holomorphic and transversely holomorphic foliations. 90k:32066
 Kalka, M. *see* Duchamp, T., 90k:32032
 Medvedeva, N. B. The first focus quantity of a complex monodromic singularity. (Russian. English summary) 90a:58136
 Montano, David (with Sonnenschein, Jacob) The topology of moduli space and quantum field theory. 90k:81228
 Muciño, J. *see* Gómez-Mont, Xavier, 90b:58220
 Murray, M. K. *see* Garland, H., 90c:53179
 Nakamura, Keiichi On the isomonodromic deformation of certain Pfaffian systems associated to Appell's systems (F_2) , (F_3) . 90a:58006
 Pyartil, A. S. The dimension of the set of joint spectra of polynomial vector fields. 90c:58132
 Reiffen, Hans-Jörg Leafspaces and integrability. 90c:32014
 Sad, P. *see* Camacho, César, 90a:58126 and 90i:58153
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Sudarshan, E. C. G. Topology and quantum internal symmetries in nonlinear field theories. 90j:81080

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Vainstrob, A. Yu. Deformations of complex superspaces and of the coherent sheaves on them. (Russian) 90h:32049

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32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups of complex spaces [see also 22E10]

Abe, Yukitaka Another projective embedding of toroidal groups. 90h:32059

— Homogeneous line bundles over a toroidal group. 90k:32090

Budzyński, Robert J. (with Klimek, Sławomir; Sadowski, Paweł) The group of local biholomorphisms of \mathbb{C}^1 and conformal field theory in the operator formalism. 90d:32048

Feldmüller, Dorothee The Picard group of a complex quotient variety. 90k:32091

Fujiki, Akira Finite automorphism groups of complex tori of dimension two. 90f:32031

Geatti, Laura Holomorphic automorphisms of the tube domain over the Vinberg cone. (Italian summary) 90h:32060

Gellhaus, Christoph (with Wurzbacher, Tilmann) Holomorphic group actions with many compact orbits. 90j:32034

Hauser, H. (with Müller, Gerd) Algebraic singularities have maximal reductive automorphism groups. 90k:32041

Heinzer, Peter Fixpunktgruppen kompakter Gruppen in Teilgebieten Steinscher Mannigfaltigkeiten. [Fixed point sets of compact groups in subdomains of Stein manifolds] 90k:32092

Helminck, G. F. Matrix hierarchies and vector bundles over Riemann surfaces. 90k:32042

Kato, Mitsuyoshi On some abelian complex reflection groups. 90k:32093

Klimek, Sławomir see Budzyński, Robert J.; et al., 90d:32048

Lescure, F. Sur les compactifications équivariantes des groupes commutatifs. (English summary) [Equivariant compactifications of commutative groups] 90f:32032

Loeh, Jean-Jacques Quelques aspects de l'analyse complexe sur les groupes de Lie. [Some aspects of complex analysis on Lie groups] 90a:32040

Müller, Gerd Deformations of reductive group actions. 90k:32043

— see also Hauser, H., 90k:32041

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Sampieri, Umberto Lie group structures and reproducing kernels on homogeneous Siegel domains. 90f:32033

Sharonov, S. E. Classification of groups of biholomorphic automorphisms of analytic polyhedra. 90h:32061

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Winkelmann, Jörg On free holomorphic \mathbb{C} -actions on \mathbb{C}^n and homogeneous Stein manifolds. 90k:32094

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Abate, Marco Annular bundles. 90k:32031

Barrett, D. E. (with Bedford, E.; Dadok, Jiri) T^n -actions on holomorphically separable complex manifolds. 90k:32003

Bedford, E. see Barrett, D. E.; et al., 90k:32003

Benson, Chal (with Gordon, Carolyn S.) Kähler structures on compact solvmanifolds. 90g:53079

Cerveau, Dominique (with Moussu, R.) Groupes d'automorphismes de $(\mathbb{C}, 0)$ et équations différentielles $ydy + \dots = 0$. (English summary) [Groups of automorphisms of $(\mathbb{C}, 0)$ and differential equations of the form $ydy + \dots = 0$] 90m:58192

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tom Dieck, Tammo (with Petrie, Ted) The Abhyankar-Moh problem in dimension 3. 90i:14049

Frankel, Sidney Complex geometry of convex domains that cover varieties. 90i:32037

Futaki, Akito (with Mabuchi, Toshiaki) An obstruction class and a representation of holomorphic automorphisms. 90k:32049

Gordon, Carolyn S. see Benson, Chal, 90g:53079

Heinzer, Peter Kompakte Transformationsgruppen Steinscher Räume. [Compact transformation groups of Stein spaces] 90m:32051

Isaev, A. V. Classification of spherical tube hypersurfaces that have two minus in the Levi signature form. 90m:32042

— (with Mischenko, M. A.) Classification of spherical tube hypersurfaces that have one minus in the Levi signature form. 90k:32047

Kim, Kang Tae Theory of domains in \mathbb{C}^n from geometric viewpoint. 90k:32027

Knop, Friedrich Der kanonische Modul eines Invariantenrings. (English summary) [The canonical module of a ring of invariants] 90k:14053

Kraft, Hanspeter (with Petrie, Ted; Randall, John D.) Quotient varieties. 90b:14057

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Mischenko, M. A. see Isaev, A. V., 90k:32047

Moser-Jansin, Lucy Some almost homogeneous group actions on smooth complete rational surfaces. 90a:14067

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Neretin, Yu. A. Holomorphic continuations of representations of the group of diffeomorphisms of the circle. (Russian) 90k:22032

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Schwarz, Gerald W. The topology of algebraic quotients. 90m:14043

Sertöz, Sıvan \mathbb{C}^* -actions on Grassmann bundles and the cycle at infinity. 90k:32035

32M10 Homogeneous complex manifolds [see also 14M17, 57T15]

Abe, Yukitaka On toroidal groups. 90j:32035

— Homomorphisms of toroidal groups. 90j:32036

Akyildiz, Ersan (with Carrell, J.) A generalization of the Kostant-Macdonald identity. 90h:32060

Arabis, Alberto Cohomologie T -équivariante de la variété de drapeaux d'un groupe de Kac-Moody. (English summary) [T -equivariant cohomology of the flag manifold of a Kac-Moody group] 90i:32042

Asakawa, Kazuo Criteria for quasi-symmetry and the holomorphic sectional curvature of a homogeneous bounded domain. 90h:32061

Carlson, James A. (with Toledo, Domingo) Integral manifolds, harmonic mappings, and the abelian subspace problem. 90a:32041

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Chen, Ji Yang Some classes of extension spaces of nonsymmetric classical domains. (Chinese) 90k:32095

— Some classes of nonsymmetric homogeneous domains. (Chinese) 90k:32096

Chen, Zhi He The invariant differential operators of order two for a class of nonsymmetric domains. (Chinese) 90k:32045

Durfee, J. Proof of the radical conjecture for homogeneous Kähler manifolds. 90k:32043

Gelfand, I. M. (with Graev, M. I.) Hypergeometric functions related to the Grassmannian $G_{1,6}$. 90k:32046

Gherardelli, Francesco Quasi-abelian varieties with complex multiplication. (Italian. English summary) 90k:32097

Gilligan, B. (with Oeljeklaus, K.; Richthofer, W.) Homogeneous complex manifolds with more than one end. 90k:32034

Gong, Sheng (with Zheng, Xue An) Deviation theorems for doubly holomorphic mappings on homogeneous domains. I. (Chinese) (Not in MR)

Graev, M. I. see Gelfand, I. M., 90k:32046

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Oeljeklaus, K. (with Richthofer, W.) Recent results on homogeneous complex manifolds. 90k:32042

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Pittie, Harsh V. The Dolbeault-cohomology ring of a compact, even-dimensional Lie group. 90k:32035

— The nondegeneration of the Hodge-de Rham spectral sequence. 90k:32062

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Snow, Dennis M. Spanning homogeneous vector bundles. 90k:32036

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Trasas, Gr. On the classification of homogeneous bounded domains in \mathbb{C}^n . 90k:32047

Voronov, A. A. (with Manin, Yu. I.) Supercellular partitions of flag superspaces. (Russian) 90k:32037

Xu, Yi Chao On the classification of the homogeneous bounded domains. 90k:32044

Zheng, Xue An see Gong, Sheng, (Not in MR)

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Abe, Yukitaka Another projective embedding of toroidal groups. 90h:32059

Ahern, Patrick (with Bruna, Joaquim) Maximal and area integral characterizations of Hardy-Sobolev spaces in the unit ball of \mathbb{C}^n . 90k:32011

Ajtenz, M. O. Some results on the real K -theory of certain homogeneous spaces. 90a:55028

Bai, Yuan Hual Composition factors of sheaf cohomology groups on G/B . (Chinese. English summary) 90k:20036

Benson, Chal (with Gordon, Carolyn S.) Kähler and symplectic structures on nilmanifolds. 90k:53042

— (with Gordon, Carolyn S.) Kähler structures on compact solvmanifolds. 90g:53079

Bressler, Paul (with Events, Sam) The Schubert calculus, braid relations, and generalized cohomology. 90k:57074

Brion, Michel Spherical varieties: an introduction. 90m:14050

Bruna, Joaquim see Ahern, Patrick, 90k:32011

Cecotti, S. Homogeneous Kähler manifolds and flat-potential $N = 1$ supergravities. 90k:53178

Čenkl, Bohumil (with Porter, Richard) L'anneau de cohomologie entière d'une nilvariété. (English summary) [The integral cohomology ring of a nilmanifold] 90a:57057

Chabouni-Sellami, Amel Relations entre les fonctions moyennes sur un espace préhomogène. (English summary) [Relations among mean functions on a prehomogeneous space] 90k:22010

Dellus, Gustav W. Wess-Zumino-Witten model on discrete coset manifolds. 90d:81087

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Forger, Michael Supersymmetric sigma models and Kähler manifolds. 90k:53178

Geatti, Laura Holomorphic automorphisms of the tube domain over the Vinberg cone. (Italian summary) 90h:32060

Givental, A. B. Plücker formulas and Cartan matrices. 90k:32033

Gorbachev, V. V. Plesio-compact homogeneous spaces. 90f:22010

Gordon, Carolyn S. see Benson, Chal, 90k:53042 and 90g:53079

Itoh, Mitsuhiro (with Manabe, Hiroki) Yang-Mills-Higgs fields and harmonicity of limit maps. 90m:58037

Kasai, Shin-ichi A classification of reductive prehomogeneous vector spaces with two irreducible components. I. 90k:20038

— A classification of a certain class of reductive prehomogeneous vector spaces. 90k:20065

— Universal transitivity of certain classes of reductive prehomogeneous vector spaces. 90k:20044

Khosrooyan, O. M. Homogeneous spaces with two ends and positive Euler characteristics. 90k:53122

Kobayashi, Masanori Some remarks on affine homogeneous spaces. 90k:14056

Kronheimer, P. B. The construction of ALE spaces as hyper-Kähler quotients. 90d:53055

- A Torelli-type theorem for gravitational instantons. 90d:53056
- Kubota, Yoshihisa A note on bounded holomorphic functions on bounded homogeneous domains. 90b:32003
- Lichnerowicz, André (with Medina Perea, Alberto) On Lie groups with left-invariant symplectic or Kählerian structures. 90j:53067
- Loeb, Jean-Jacques Quelques aspects de l'analyse complexe sur les groupes de Lie. [Some aspects of complex analysis on Lie groups] 90a:32040
- Lorentz, Kai On the structure of the similarity orbits of Jordan operators as analytic homogeneous manifolds. 90i:46092
- Manabe, Hiroki see Itoh, Mitsuhiro, 90m:58037
- Mantini, Lisa A. An L^2 -cohomology construction of negative spin mass zero equations for $U(p, q)$. 90c:22040
- Medina Perea, Alberto see Lichnerowicz, André, 90j:53067
- Morgan, Frank Least-volume representatives of homology classes in $G(2, C^4)$. 90c:57030
- Mukai, Shigeru Curves, $K3$ surfaces and Fano 3-folds of genus ≤ 10 . 90b:14039
- Muro, Masakazu A note on the holonomic system of invariant hyperfunctions on a certain prehomogeneous vector space. 90i:22027
- Nakashima, Martin M. Singletons and twistors. 90d:32047
- Penkov, I. B. (with Serganova, V. V.) Character formulas for some classes of atypical $gl(m+n)$ - and $p(m)$ -modules. 90c:17041
- Porter, Richard see Cenki, Bohumil, 90a:57057
- Römer, H. Homogeneous Kähler manifolds. (see 90i:00004)
- Saito, Masa-Hiko Generic Torelli theorem for hypersurfaces in compact irreducible Hermitian symmetric spaces. 90d:32041
- Schmid, Wilfried Homogeneous complex manifolds and representations of semisimple Lie groups. 90i:22025
- Serganova, V. V. see Penkov, I. B., 90c:17041
- Shapiro, B. Z. Linear differential equations and real flag manifolds. 90i:58182
- Shchektinin, A. N. On a class of compact homogeneous spaces. I. 90d:57049
- Tung, Chia Chi On the projective embeddability of compact complex manifolds. 90b:32054
- Winkelmann, Jörg On free holomorphic C -actions on C^n and homogeneous Stein manifolds. 90b:32094
- Zhu, Zhong Nan Some equivalent conditions for decomposable tensors in Grassmann spaces. (Chinese) 90b:15026
- Zlerau, Roger A construction of harmonic forms on $U(p+1, q)/U(p, q) \times U(1)$. 90b:22019

32M15 Hermitian symmetric spaces, bounded symmetric domains [see also 22E10, 22E40, 53C35, 57T15]

- Agranovskii, M. L. Möbius spaces of functions on the Shilov boundaries of classical domains of tube type. 90c:32048
- D'Atri, Joseph E. (with Zhao, Yan Da) A refined structure theorem for normal j -algebras. 90c:32038
- (with Dorfmeister, J.) Flat totally geodesic submanifolds of quasisymmetric Siegel domains. 90f:32034
- Dorfmeister, J. see D'Atri, Joseph E., 90f:32034
- Faraud, J. (with Korányi, A.) Function spaces and reproducing kernels on bounded symmetric domains. 90m:32049
- Geatti, Laura Holomorphic automorphisms of some tube domains over nonselfadjoint cones. 90a:32043
- Korányi, A. see Faraud, J., 90m:32049
- Kostadinov, G. D. Almost holomorphic functions on generalized symmetric spaces. (Russian. English summary) 90b:32063
- Looienga, Eduard L^2 -cohomology of locally symmetric varieties. 90a:32044
- Seröz, Sinan C^* -actions on Grassmann bundles and the cycle at infinity. 90f:32035
- Stoll, M. Rate of growth of p th means of invariant potentials in the unit ball of C^n . 90j:32037
- Ta, Wing-Keung Hermitian metrics of seminegative curvature on quotients of bounded symmetric domains. 90g:32035
- Ye, Fang Cao Invariant differential operators on nonexceptional irreducible Riemannian symmetric spaces of the first type. (Chinese. English summary) 90m:32050
- Zhao, Yan Da see D'Atri, Joseph E., 90c:32038

Items with secondary classifications in 32M15

- Clerc, J.-L. Fonctions K de Bessel pour les algèbres de Jordan. (English summary) [Bessel K -functions for Jordan algebras] 90d:43007
- Faraud, J. Formule du binôme généralisée. [The generalized binomial formula] 90b:43016
- Frankel, Sidney Complex geometry of convex domains that cover varieties. 90i:32037
- Guan, Zhuang Dan Curvature on the Hermitian symmetric spaces. 90b:53061
- Handelman, David E. (with Yin, Hong Sheng) Toeplitz algebras and rotational automorphisms associated to polydiscs. 90a:46186
- Harris, Michael Functorial properties of toroidal compactifications of locally symmetric varieties. 90b:11048
- Kazama, Yoichi (with Suzuki, Hisao) New $N=2$ superconformal field theories and superstring compactification. 90g:81249
- Kubota, Yoshihisa On the Kobayashi and Carathéodory distances of bounded symmetric domains. 90a:32033
- Lee, Ronnie (with Weintraub, Steven H.) On certain Siegel modular varieties of genus two and levels above two. 90d:11067
- Nomura, Takaaki A description of a space of holomorphic discrete series by means of the Fourier transform on the Šilov boundary. 90g:22023
- Salvati Manni, Riccardo On the holomorphic differential forms of the Siegel modular variety. 90j:11038
- Suzuki, Hisao see Kazama, Yoichi, 90g:81249
- Szenhse, J. Pairs of totally geodesic submanifolds in symmetric spaces associated with some isometric actions. 90b:53066
- Upmeyer, Harald Fredholm indices for Toeplitz operators on bounded symmetric domains. 90f:47037
- Weintraub, Steven H. see Lee, Ronnie, 90d:11067
- Yin, Hong Sheng see Handelman, David E., 90a:46186

- Zhu, Ke He Duality and Hankel operators on the Bergman spaces of bounded symmetric domains. 90b:47051
- Multipliers of BMO in the Bergman metric with applications to Toeplitz operators. 90m:42024

32M99 None of the above, but in this section

- Heinzner, Peter Kompakte Transformationsgruppen Steinscher Räume. [Compact transformation groups of Stein spaces] 90m:32051

Items with secondary classifications in 32M99

- Brian, Michel Spherical varieties: an introduction. 90m:14050
- Kim, Kang Tae Domains with noncompact automorphism groups. 90m:32036
- Koras, Mariusz (with Russell, P.) On linearizing "good" C^* -actions on C^n . 90i:14050
- Lisiecki, Wojciech Blattner-Kostant-Sternberg pairing and Fourier transform on symmetric spaces. 90g:22015
- Namba, Makoto On finite Galois coverings of projective manifolds. 90i:14012
- Russell, P. see Koras, Mariusz, 90i:14050
- Sampieri, Umberto Lie group structures and reproducing kernels on homogeneous Siegel domains. 90f:32033

32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N05 General theory of automorphic functions of several complex variables

- Futaki, Akito (with Mabuchi, Toshiaki) An obstruction class and a representation of holomorphic automorphisms. 90c:32049
- Mabuchi, Toshiaki see Futaki, Akito, 90c:32049
- Millson, John J. Intersection numbers of cycles on locally symmetric spaces and Fourier coefficients of holomorphic modular forms in several complex variables. 90m:32052

Items with secondary classifications in 32N05

- Chai, Ching-Li Arithmetic compactification of the Siegel moduli space. 90b:14042
- Gherardelli, Francesco On a class of abelian varieties. (Italian. English summary) 90c:14045
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- Leeming, David J. The real zeros of the Bernoulli polynomials. **90k:33029**
- Lesky, P., Jr. Eine Vervollständigung der Hahnpolynome. [A completion of the Hahn polynomials] **90j:33016**
- Lorch, Lee (with Russell, Dennis) On some contributions of Halász to the Turán power-sum theory. II. **90f:33016**
- Milgram, M. S. An addition formula for Chebyshev polynomials. **90k:33027**
- Montaldi, Emilio (with Zuccheri, Giuseppe) Sum rules of special functions, revisited. (Italian summary) **90c:33035**
- Prasad, Jagadamba Bilateral and trilateral generating relations for a unified polynomial set $R_n(x)$. **90g:33014**
- Redheffer, Ray Estimation of an integral. **90j:33017**
- Russell, Dennis *see* Lorch, Lee, **90f:33016**
- (Ryzhik, I. M.) *see* Kemp, Mathieu, **90j:33015**
- Schmidt, Michael *see* Butzer, P. L.; et al., **90m:33016**
- Singh, Rajendra Prasad Infinite integrals involving generalized Struve function. **90h:33029**
- Steinborn, E. Otto *see* Weniger, E. Joachim, **90c:33036**
- Tannous, C. *see* Kemp, Mathieu, **90j:33015**
- Weniger, E. Joachim (with Steinborn, E. Otto) Addition theorems for B functions and other exponentially declining functions. **90c:33036**
- Zuccheri, Giuseppe *see* Montaldi, Emilio, **90c:33035**

Items with secondary classifications in 33A70

- Anderson, G. D. (with Vamanamurthy, Mavina K.; Vuorinen, Matti) Special functions of quasiconformal theory. **90k:30032**
- Andrews, George Mock theta functions. **90h:33005**
- Baker, I. N. (with Rippon, P. J.) Iterating exponential functions with cyclic exponents. **90g:30001**
- Baltus, Christopher (with Jones, William B.) Truncation error bounds for modified continued fractions with applications to special functions. **90h:65021**
- Chiu, Ying Nan *see* Lai, Shan Tao, **90f:22027**
- Craven, Thomas C. (with Csordas, G.) Jensen polynomials and the Turán and Laguerre inequalities. **90a:26035**
- Csordas, G. (with Varga, Richard S.) Fourier transforms and the Hermite-Biehler theorem. **90k:30005**
- *see also* Craven, Thomas C., **90a:26035**
- Gould, H. W. (with Kerr, W. Y.) Characterization of polynomial systems satisfying generalized convolution differential-difference equations. **90f:34104**
- Grabner, Sandy Convergent expansions and bounded operators in the umbral calculus. **90c:05015**
- Haq, S. M. A. The summation of some infinite series arising out of the solution of a partial differential equation. III. **90j:35050**
- Jones, William B. *see* Baltus, Christopher, **90h:65021**
- Joshi, Nalin (with Kruskal, Martin D.) An asymptotic approach to the connection problem for the first and the second Painlevé equations. **90d:34016**

- Joyce, G. S. On the hard-hexagon model and the theory of modular functions. 90c:82055
 Kaminicki, David Asymptotic expansion of the Pearcey integral near the caustic. 90f:41039
 Kerr, W. Y. See Gould, H. W., 90f:34104
 Kopal, Zdeněk see Srivastava, Hari M., 90m:85007
 Kruskal, Martin D. see Joshi, Nalin, 90d:34016
 Lal, Shan Tao (with Chiu, Ying Nan) On the recurrence relations, summations, and integrations of finite rotation matrix elements. 90f:22027
 McGregor, J. R. Asymptotic normality of the Munch numbers. 90d:05010
 Obi, E. C. The coefficients of the Rayleigh polynomials. 90d:11031
 Oliger, B. Kh. Properties of Faber operators and the representation of functions by series in Faber polynomials. (Russian) (see 90m:00015)
 Rippon, P. J. see Baker, I. N., 90g:33001
 Srivastava, Hari M. (with Kopal, Zdeněk) Further notes on the associated alpha-functions and related integrals in the theory of the light changes of eclipsing variables. 90m:85007
 Tatsunayak, P. I. Formulas for multiplying the MacDonald function in axiomatic quantum field theory. (Ukrainian. Russian summary) (Not in MR)
 Uchimura, Keisuke Zeros of the Chebyshev polynomials of the second kind in two variables z and \bar{z} . 90m:33014
 Valiakmetov, A. T. see Volkodavov, V. F., 90b:45006
 Vamanamurthy, Mavin K. see Anderson, G. D.; et al., 90k:30032
 Varga, Richard S. see Cordas, G., 90b:30005
 Volkodavov, V. F. (with Valiakmetov, A. T.) Identities for a special function and their applications to the solution of Volterra integral equations of the first kind. (Russian) 90b:45006
 Vuorinen, Matti see Anderson, G. D.; et al., 90k:30032

33A75 Special functions and Lie groups [see also 22Exx, 43A80]

- Chongdar, Asit Kumar Some generating functions of $H_n^*(x, a, p)$ —the generalization of Hermite polynomials. 90i:33027
 Feinsilver, Philip Lie algebras and recurrence relations. I. 90d:33009
 Garvan, F. G. Some Macdonald-Mehta integrals by brute force. 90k:33030
 Ghosh, Bandana On the extension of bilateral generating relation of Gegenbauer polynomials. 90g:33015
 — Derivation of raising and lowering operators for Jacobi polynomials. 90k:33031
 Koornwinder, Tom H. Meixner-Pollaczek polynomials and the Heisenberg algebra. 90c:33037
 Items with secondary classifications in 33A75
 Alhassid, Y. see Wu, Jian Shi, 90m:22030
 Barik, N. Some theorems on generating functions for Hermite polynomials and their applications. 90h:33021
 Beyer, W. A. see Louck, J. D.; et al., 90j:81061
 Biedenharn, L. C. see Louck, J. D.; et al., 90j:81061
 Chongdar, Asit Kumar On generating functions of generalized Bessel polynomials. 90b:33018
 — (with Mukherjee, Manik Chandra) On the bilateral generating functions of simple Bessel polynomial. 90c:33022
 — see also Mukherjee, Manik Chandra, 90k:33025
 Ehrenpreis, Leon Hypergeometric functions. 90j:33004
 Feinsilver, Philip (with Kocik, Jerzy) Representations of the Heisenberg algebra, Riccati systems, and associated geometric structures. 90k:17012
 Ghosh, Bandana Derivation of raising and lowering operators for Jacobi polynomials. 90b:33021
 Gustafson, Robert A. Multilateral summation theorems for ordinary and basic hypergeometric series in $U(n)$. 90c:33015
 — Invariant theory and special functions. 90g:22029
 — A generalization of Selberg's beta integral. 90j:33001
 Kadell, Kevin W. J. The q -Selberg polynomials for $n = 2$. 90d:05026
 Klimyk, A. U. (with Vilenkin, N. Ya.) Relations between spherical functions of compact groups. 90i:22024
 — see also Vilenkin, N. Ya., 90a:22020
 Kocik, Jerzy see Feinsilver, Philip, 90k:17012
 Koornwinder, Tom H. Group theoretic interpretations of Askey's scheme of hypergeometric orthogonal polynomials. 90b:33024
 Louck, J. D. (with Beyer, W. A.; Biedenharn, L. C.; Stein, P. R.) Symmetries of some hypergeometric series: implications for $3j$ - and $6j$ -coefficients. 90j:81061
 Manocha, H. L. Lie algebras of difference-differential operators and Appell functions F_1 . 90k:33008
 Mukherjee, Manik Chandra (with Chongdar, Asit Kumar) Derivation of some generating functions of modified Bessel polynomials by Lie-algebraic method. 90k:33025
 — see also Chongdar, Asit Kumar, 90c:33022
 Opdam, E. M. Root systems and hypergeometric functions. III. 90k:17021
 Pavlyuk, A. P. see Vilenkin, N. Ya., 90a:22019
 Rajeswari, V. see Srinivasa Rao, K., (90m:33001)
 Richards, Donald St. P. Analogs and extensions of Selberg's integral. 90k:33003
 Shahshahani, Mehdi Poincaré inequality, uncertainty principle, and scattering theory on symmetric spaces. 90g:22017
 Srinivasa Rao, K. (with Rajeswari, V.) Racah-Wigner algebra and generalized hypergeometric functions. (see 90m:33001)
 Stade, Eric Poincaré series for $GL(3, \mathbb{R})$ -Whittaker functions. 90i:22022
 Stein, P. R. see Louck, J. D.; et al., 90j:81061
 Vilenkin, N. Ya. (with Pavlyuk, A. P.) Representations of some semisimple Lie groups and special functions of the matrix argument. 90a:22019
 — (with Klimyk, A. U.) Representations of the group $SU(1, 1)$, and the Krawtchouk-Meixner functions. (Russian. English summary) 90a:22020
 — see also Klimyk, A. U., 90i:22024
 Wu, Jian Shi (with Alhassid, Y.) The potential group approach and hypergeometric differential equations. 90m:22030
 Zellberger, Doron A unified approach to Macdonald's root-system conjectures. 90b:17015

33A99 Miscellaneous topics

- Campos, L. M. B. C. On a systematic approach to some properties of special functions. 90b:33028
 Chongdar, Asit Kumar A general theorem on the unification of a class of bilateral generating functions for certain special functions. 90i:33028
 Gasper, George (with Rahman, Mizan) An indefinite bibasic summation formula and some quadratic, cubic and quartic summation and transformation formulas. 90k:33032
 Korenkov, N. E. Asymptotic properties of Weierstrass sigma functions and Jacobi theta functions. 90h:33030
 Rahman, Mizan see Gasper, George, 90k:33032
 Items with secondary classifications in 33A99
 Chudnovsky, David V. (with Chudnovsky, Gregory V.) The computation of classical constants. 90m:11206
 Chudnovsky, Gregory V. see Chudnovsky, David V., 90m:11206
 McKay, John (with Strauss, Hubertus) The q -series of monstrous moonshine and the decomposition of the head characters. 90m:11065
 Strauss, Hubertus see McKay, John, 90m:11065
 Ueno, Kazuo General power umbral calculus in several variables. 90m:05014

34-XX Ordinary differential equations

34-00 Handbooks, dictionaries, and other reference works

- Items with secondary classifications in 34-00
 Zwillinger, Daniel ★ Handbook of differential equations. 90k:00044

34-01 Elementary exposition; textbooks

- Birkhoff, Garrett (with Rota, Gian-Carlo) ★ Ordinary differential equations. 90h:34001
 Heuser, Harro ★ Gewöhnliche Differentialgleichungen. (German) [Ordinary differential equations.] 90f:34001
 Iooss, G. (with Joseph, Daniel D.) ★ Elementary stability and bifurcation theory. 90i:34001
 Joseph, Daniel D. see Iooss, G., 90i:34001
 Krivosheya, S. A. see Samoilenko, A. M.; et al., 90m:34002
 (Luca, Nicolae) see Moroşanu, Gheorghe, 90m:34001
 Moroşanu, Gheorghe ★ Ecuații diferențiale. (Romanian) [Differential equations] 90m:34001
 Perestyuk, N. A. see Samoilenko, A. M.; et al., 90m:34002
 Ross, Shepley L. ★ Introduction to ordinary differential equations. 90a:34001
 (Ross, Shepley L., II) see Ross, Shepley L., 90a:34001
 Rota, Gian-Carlo see Birkhoff, Garrett, 90h:34001
 Samoilenko, A. M. (with Krivosheya, S. A.; Perestyuk, N. A.) ★ Дифференциальные уравнения. (Russian) [Differential equations] 90m:34002

Items with secondary classifications in 34-01

- (Caloz, G.) see Cuvelier, C.; et al., 90k:35003a and 90k:35003b
 Cuvelier, C. (with Descloux, J.; Rappaz, J.; Stuart, Charles A.; Zwahlen, B.) ★ Éléments d'équations aux dérivées partielles pour ingénieurs. Théorie et méthodes numériques. 1. (French) [Partial differential equations for engineers. Theory and numerical methods. 1] 90k:35003a
 — (with Descloux, J.; Rappaz, J.; Stuart, Charles A.; Zwahlen, B.) ★ Éléments d'équations aux dérivées partielles pour ingénieurs. Théorie et méthodes numériques. 2. (French) [Partial differential equations for engineers. Theory and numerical methods. 2] 90k:35003b
 Descloux, J. see Cuvelier, C.; et al., 90k:35003a and 90k:35003b
 Jeffries, Clark ★ Mathematical modeling in ecology. 90j:92035
 (Kalinin, Konstantin) see Krasnov, M. L.; et al., 90k:00014
 Kiselev, A. I. see Krasnov, M. L.; et al., 90k:00014
 Krasnov, M. L. (with Kiselev, A. I.; Makarenko, G. I.) ★ Funzioni di una variabile complessa. Calcolo operatoriale. Teoria della stabilità. (Italian) [Functions of a complex variable. Operational calculus. Stability theory] 90k:00014
 Makarenko, G. I. see Krasnov, M. L.; et al., 90k:00014
 Rappaz, J. see Cuvelier, C.; et al., 90k:35003a and 90k:35003b
 Stuart, Charles A. see Cuvelier, C.; et al., 90k:35003a and 90k:35003b
 Vladimirov, V. S. ★ Уравнения математической физики. (Russian) [The equations of mathematical physics] 90m:00009
 Zwahlen, B. see Cuvelier, C.; et al., 90k:35003a and 90k:35003b

34-02 Advanced exposition (research surveys, monographs, etc.)

- Delf, A. ★ Sensitivity analysis in linear systems. 90f:34002
 Filippov, A. F. ★ Differential equations with discontinuous righthand sides. 90k:34002
 Galshteyn, I. V. ★ Линейные уравнения в полных произвольных. (Russian) [Linear total differential equations] 90g:34001
 Halvorsen, S. Gotkalk see Mingarelli, A. B., 90a:34002
 Ignatyev, A. O. see Savchenko, A. Ya., 90b:34002
 Kadalbayev, M. K. (with Reddy, Y. N.) Asymptotic and numerical analysis of singular perturbation problems: a survey. 90c:34001
 Manevich, L. I. (with Mikhlin, Yu. V.; Pilipchuk, V. N.) ★ Метод нормальных колебаний для существенно нелинейных систем. (Russian) [The method of normal oscillations for essentially nonlinear systems] 90i:34003

- Mikhlin, Yu. V. *see* Manevich, L. I.; et al. 90i:34003
 Mingarelli, A. B. (with Halvorsen, S. Gotskalk) ★ Nonoscillation domains of differential equations with two parameters. 90a:34002
 (Myshkis, A. D.) *see* Petrovskii, I. G. 90a:34003
 (Oleinik, O. A.) *see* Petrovskii, I. G. 90a:34003
 (Petrova, Irina) *see* Petrovskii, I. G. 90a:34003
 Petrovskii, I. G. ★ Théorie des équations différentielles ordinaires et des équations intégrales. (French) [Theory of ordinary differential equations and integral equations] 90a:34003
 Pilipchuk, V. N. *see* Manevich, L. I.; et al. 90i:34003
 Reddy, Y. N. *see* Kadalbhajoo, M. K. 90e:34001
 Savchenko, A. Ya. (with Ignat'ev, A. O.) ★ Некоторые задачи устойчивости неавтономных динамических систем. (Russian) [Some problems in the stability of nonautonomous dynamical systems] 90h:34002
 Schwabik, Stefan Generalized differential equations: special results. (Russian summary) 90i:34003
 Ye, Yan Qian Qualitative theory of ODEs in the complex domain. (Chinese) 90d:34001
 Zhu, Si Ming Recent developments outside China in the stability theory of ODEs. (Chinese) 90a:34004

Items with secondary classifications in 34-02

- Agarwal, Ravi Prakash ★ Boundary value problems for higher order differential equations. 90i:34025
 Arno'd, V. I. (with Vishik, M. I.; Ilyashenko, Yu. S.; Kalashnikov, A. S.; Kondrat'ev, V. A.; Krut'kov, S. N.; Landis, E. M.; Millionshchikov, V. M.; Oleinik, O. A.; Filippov, A. F.; Shubin, M. A.) ★ Unsolved problems in the theory of differential equations and mathematical physics. 90m:00003
 Azbelev, N. V. Stability of linear systems with aftereffect. (Russian) 90c:34077
 (Barbu, Viorel) *see* Moroşanu, Gheorghe. 90a:34139
 Bohrowski, Dobiesław ★ Wstęp do losowych równań różniczkowych zwyczajnych. (Polish) [Introduction to random ordinary differential equations] 90h:34092
 Filippov, A. F. *see* Arno'd, V. I.; et al. 90m:00003
 Harris, Christopher J. (with Valenta, J. M. E.) ★ Устойчивость динамических систем с обратной связью. (Russian) [The stability of feedback dynamical systems] 90g:93070
 Ilyashenko, Yu. S. *see* Arno'd, V. I.; et al. 90m:00003
 Kalashnikov, A. S. *see* Arno'd, V. I.; et al. 90m:00003
 Kondrat'ev, V. A. *see* Arno'd, V. I.; et al. 90m:00003
 Krut'kov, S. N. *see* Arno'd, V. I.; et al. 90m:00003
 Laddé, G. S. (with Lakshmikantham, V.; Zhang, Bing Gen) ★ Oscillation theory of differential equations with deviating arguments. 90h:34118
 Lakshmikantham, V. (with Leela, S.; Martynyuk, A. A.) ★ Stability analysis of nonlinear systems. 90h:34073
 — *see also* Laddé, G. S.; et al. 90h:34118
 Landis, E. M. *see* Arno'd, V. I.; et al. 90m:00003
 Leela, S. *see* Lakshmikantham, V.; et al. 90h:34073
 Lepin, A. Ya. (with Lepin, L. A.) ★ Красные задачи для обыкновенного дифференциального уравнения второго порядка. (Russian) [Boundary value problems for a second-order ordinary differential equation] 90h:34031
 Lepin, L. A. *see* Lepin, A. Ya. 90h:34031
 Maric, V. Differential and algebraic equations in Hardy fields. 90m:12012
 Martynyuk, A. A. *see* Lakshmikantham, V.; et al. 90h:34073
 Millionshchikov, V. M. *see* Arno'd, V. I.; et al. 90m:00003
 Moroşanu, Gheorghe ★ Nonlinear evolution equations and applications. 90a:34139
 Nishikawa, Keiji ★ Daisteki bibun hoteishiki no ippankai—bibun daishu nyumon. (Japanese) [General solutions of algebraic differential equations—an introduction to differential algebra] 90a:12016
 Oleinik, O. A. *see* Arno'd, V. I.; et al. 90m:00003
 Omari, P. (with Villari, Gabriele; Zanolin, Fabio) A survey of recent applications of fixed point theory to periodic solutions of the Liénard equation. 90h:34062
 (Pazy, A.) *see* Vrabie, Ioan I. 90e:47101
 Shubin, M. A. *see* Arno'd, V. I.; et al. 90m:00003
 Tolmachov, V. V. *see* Harris, Christopher J. 90g:93070
 Valenta, J. M. E. *see* Harris, Christopher J. 90g:93070
 Villari, Gabriele *see* Omari, P.; et al. 90h:34062
 Vishik, M. I. *see* Arno'd, V. I.; et al. 90m:00003
 Vrabie, Ioan I. ★ Compactness methods for nonlinear evolutions. 90e:47101
 Zanolin, Fabio *see* Omari, P.; et al. 90h:34062
 Zhang, Bing Gen *see* Laddé, G. S.; et al. 90h:34118

34-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 34-03

- (Cherry, T. M.) *see* Grimshaw, R. 90c:01036
 Dell'Aglio, Luca (with Israel, Giorgio) The themes of stability and qualitative analysis in the works of Levi-Civita and Volterra. (Italian) 90c:01031
 — (with Israel, Giorgio) La théorie de la stabilité et l'analyse qualitative des équations différentielles ordinaires dans les mathématiques italiennes: le point de vue de Tullio Levi-Civita. [The theory of stability and qualitative analysis of ordinary differential equations in Italian mathematics: the point of view of Tullio Levi-Civita] 90i:01021
 Grimshaw, R. An analysis of the impact of T. M. Cherry's work on asymptotic expansions. 90c:01036
 Israel, Giorgio *see* Dell'Aglio, Luca. 90c:01031 and 90i:01021
 Krbić, Jaroslav (with Moravčík, Jozef) 15 years of the work of the Seminar on Differential Equations of the Faculty of Mechanical and Electrical Engineering at the University of Transport and Telecommunications at Žilina. I, II. (Slovak. English, German and Russian summaries) 90h:01102
 (Levi-Civita, Tullio) *see* Dell'Aglio, Luca. 90c:01031 and 90i:01021

- Mira, Christian Some historical aspects concerning the theory of dynamic systems. 90k:01022
 Moravčík, Jozef *see* Krbić, Jaroslav. 90h:01102
 Tomilova, A. E. History of the origin and development of the WKB method. (Russian) 90d:01033
 (Volterra, V.) *see* Dell'Aglio, Luca. 90c:01031

34-04 Explicit machine computation and programs (not the theory of computation or programming)

- Gerd, V. P. (with Kostov, N. A.) Computer algebra in the theory of ordinary differential equations of Halphen type. 90c:34002
 Kostov, N. A. *see* Gerd, V. P. 90c:34002
 MacCallum, Malcolm A. H. An ordinary differential equation solver for REDUCE. (see 90i:00005)
 Ronveaux, A. (with Thiry, G.) Differential equations of some orthogonal families in REDUCE. 90k:34001
 Thiry, G. *see* Ronveaux, A. 90k:34001
 Wang, Dong Ming Computer algebraic methods for investigating plane differential systems of center and focus type. 90f:34004
 Wolf, Thomas Otto A package for the analytic investigation and exact solution of differential equations. 90i:34004

Items with secondary classifications in 34-04

- Grigor'ev, F. N. (with Kistlerov, V. L.) Application of computer algebra methods in analyzing the stability of linear dynamical systems. (Not in MR)
 Kistlerov, V. L. *see* Grigor'ev, F. N. (Not in MR)
 Sit, William Y. On Goldman's algorithm for solving first-order multinomial autonomous systems. 90e:34025

34-06 Proceedings, conferences, etc.

- (Azbelev, N. V.) *see* Functional-differential equations. 90b:34001
 (Deng, Zong Qi) *see* Ordinary differential equations and control theory. 90j:34001
 (Liang, Zhao Jun) *see* Ordinary differential equations and control theory. 90j:34001
 (Liao, Xiao Xin) *see* Ordinary differential equations and control theory. 90j:34001
 (Otrokov, N. F.) *see* Differential and integral equations. 90d:34002
 (Ryabov, Yu. A.) *see* Studies in the theory of differential equations. 90d:34003
 (Wu, Ke Qian) *see* Ordinary differential equations and control theory. 90j:34001

Items listed otherwise than by author

- Algebraic manipulation for groups and differential equations ★ Gun to bibun noteishiki no sushiki shori shisutemu no kenkyu. (Japanese) [Algebraic manipulation for groups and differential equations] 90a:34005

Conference:

- Ordinary Differential Equations and Control Theory ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] 90j:34001
 Differential and integral equations ★ Дифференциальные и интегральные уравнения. (Russian) [Differential and integral equations] 90d:34002
 Functional-differential equations ★ Функционально-дифференциальные уравнения. (Russian) [Functional-differential equations] 90b:34001
 Ordinary differential equations and control theory ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] 90j:34001
 Studies in the theory of differential equations ★ Исследования по теории дифференциальных уравнений. (Russian) [Studies in the theory of differential equations] 90d:34003
 Symposium:
 Algebraic Manipulation for Groups and Differential Equations ★ Gun to bibun noteishiki no sushiki shori shisutemu no kenkyu. (Japanese) [Algebraic manipulation for groups and differential equations] 90a:34005
 Wuhan ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] 90j:34001

Items with secondary classifications in 34-06

- (Aftabzadeh, A. R.) *see* Differential equations and applications. 90j:00016
 (Azbelev, N. V.) *see* Boundary value problems. 90k:00017
 (Dafermos, C. M.) *see* Differential equations. 90f:00003
 (Jarvis, R. J.) *see* Ordinary and partial differential equations. 90h:00018
 (Klokov, Yu. A.) *see* Theory and numerical methods for solving boundary value problems of differential equations. (Not in MR)
 (Ladas, G.) *see* Differential equations. 90c:00003
 (Papanicolaou, G.) *see* Differential equations. 90f:00003
 (Sharipov, Sh. R.) *see* Qualitative and analytic methods in the dynamics of systems. 90a:00011 and Problems in the analytic and qualitative theory of differential equations. 90c:00008
 (Sleeman, B. D.) *see* Ordinary and partial differential equations. 90h:00018
 Items listed otherwise than by author
 Algebraic manipulation for differential equations ★ Bibun hoteishiki no sushikishori shisutemu no kenkyu. (Japanese) [Algebraic manipulation for differential equations] 90f:58001
 Boundary value problems ★ Красные задачи. (Russian) [Boundary value problems] 90k:00017
 Columbus, OH ★ Differential equations and applications. Vol. I, II. 90j:00016
 Complex analysis and global analysis—from the viewpoint of differential equations ★ Fukuokaikiseki—bibun hoteishiki no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] 90c:58002
 Conference:
 Differential Equations and their Applications ★ Equadiff 7. 90j:00017a
 — ★ Equadiff 7. 90j:00017b
 — ★ Equadiff 7. 90j:00017c

Conference: (cont'd.)

- ★ Equadiff 7. 90j:00017d
EQUADIFF ★ Differential equations. 90f:00003
Ordinary and Partial Differential Equations ★ Ordinary and partial differential equations. Vol. II. 90h:00018
Theory and Applications of Differential Equations ★ Differential equations and applications. Vol. I, II. 90j:00016
Theory and Numerical Methods for Solving Boundary Value Problems of Differential Equations ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
Differential equations ★ Differential equations. 90f:00003
Differential equations and applications ★ Differential equations and applications. Vol. I, II. 90j:00016
Dundee ★ Ordinary and partial differential equations. Vol. II. 90h:00018
Equadiff ★ Equadiff 7. 90j:00017a
 — ★ Equadiff 7. 90j:00017b
 — ★ Equadiff 7. 90j:00017c
 — ★ Equadiff 7. 90j:00017d
Järnala ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
Ordinary and partial differential equations ★ Ordinary and partial differential equations. Vol. II. 90h:00018
Prague ★ Equadiff 7. 90j:00017a
 — ★ Equadiff 7. 90j:00017b
 — ★ Equadiff 7. 90j:00017c
 — ★ Equadiff 7. 90j:00017d
Problems in the analytic and qualitative theory of differential equations ★ Вопросы аналитической и качественной теории дифференциальных уравнений. (Russian) [Problems in the analytic and qualitative theory of differential equations] 90c:00008
Qualitative and analytic methods in the dynamics of systems ★ Качественные и аналитические методы в динамике систем. (Russian) [Qualitative and analytic methods in the dynamics of systems] 90a:00011
Study of dynamical systems ★ Rikigakakai no kenkyū. (Japanese) [The study of dynamical systems] 90h:58025
Symposium:
Algebraic Manipulation for Differential Equations ★ Bibun hoteishiki no sūshikishori shisutemu no kenkyū. (Japanese) [Algebraic manipulation for differential equations] 90f:58001
Complex Analysis and Global Analysis—from the Viewpoint of Differential Equations ★ Fukuokaiseki to taiikikaiseki—bibun hoteishiki no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] 90c:58002
Study of Dynamical Systems ★ Rikigakakai no kenkyū. (Japanese) [The study of dynamical systems] 90h:58025
Theory and numerical methods for solving boundary value problems of differential equations ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
Xanthi ★ Differential equations. 90f:00003

34Axx General theory

Volkman, Peter Über die Differentialgleichung $y'' = f(x, y)$. [On the differential equation $y'' = f(x, y)$] (see 90f:00003)

Items with secondary classifications in 34Axx

- Ross, Shepley L. ★ Introduction to ordinary differential equations. 90a:34001
 (Ross, Shepley L., II) see Ross, Shepley L., 90a:34001

34A05 Solutions in closed form, integration by quadratures, reduction of differential equations

- Bereslavskii, E. N. Integration in closed form of a class of Fuchsian equations and its applications. (Russian) 90h:34003
 Derivenskiĭ, V. P. Integrability in quadratures of a third-order linear ordinary differential equation. (Russian) (Not in MR)
 Dorofeev, B. V. Calculating fast terms in some differential equations of motion. (Russian) 90j:34002
 González-López, Artemio Symmetry and integrability by quadratures of ordinary differential equations. 90a:34006
 Kalaidia, A. V. (with Shevchenko, A. B.; Shevchenko, M. B.) Some problems of the theory of linear differential equations. (Ukrainian. Russian summary) 90a:34007
 Ranganathan, P. V. A direct procedure for deriving the invariants of certain nonlinear dynamical systems. 90h:34002
 Shevchenko, A. B. see Kalaidia, A. V.; et al., 90a:34007
 Shevchenko, M. B. see Kalaidia, A. V.; et al., 90a:34007

Items with secondary classifications in 34A05

- Asadova, M. Yu. (with Yuldasheva, D.) Solution of systems of ordinary differential equations by means of complexes. (Russian) 90g:34003
 Berkovich, L. M. (with Nechaevskii, M. L.) On the group properties and integrability of the Fowler-Emden equations. 90b:34013
 — Canonical forms of ordinary linear differential equations. 90a:34083
 Bluman, George W. (with Kumei, Sukeyuki) Use of group analysis in solving overdetermined systems of ordinary differential equations. 90f:58156
 Denisov, A. M. Inverse problems for nonlinear ordinary differential equations. 90k:34008

- Derivenskiĭ, V. P. Quasilinear matrix differential equations. (Russian. English summary) 90d:34027
 Flessas, George P. New exact solutions of the complex Lorenz equations. 90a:34014
 Grudo, E. I. On the theory of a class of linear integro-differential equations. 90h:45007
 Jódar, Lucas An algebraic approach for solving boundary value matrix problems: existence, uniqueness and closed form solutions. 90a:34038
 — (with Navarro, E.) On complete set of solutions for polynomial matrix equations. 90m:34015
 Joshi, Nalinai (with Kruskal, Martin D.) An asymptotic approach to the connection problem for the first and the second Painlevé equations. 90d:34016
 Kharlamova, E. I. On the Clebsch integral. (Russian) 90h:70004
 Kochubei, A. N. The Cauchy problem for evolution equations of fractional order. 90g:34063
 Koshlyakov, V. N. On the instability of the vertical rotation of a heavy body. 90f:70011
 Kruskal, Martin D. see Joshi, Nalinai, 90d:34016
 Kumei, Sukeyuki see Bluman, George W., 90f:58156
 MacCallum, Malcolm A. H. An ordinary differential equation solver for REDUCE. (see 90i:00005)
 Navarro, E. see Jódar, Lucas, 90m:34015
 Nechaevskii, M. L. see Berkovich, L. M., 90b:34013
 Oreshkina, L. N. Necessary and sufficient conditions for the existence of a fourth quadratic integral in some problems of the dynamics of a rigid body. (Russian) 90b:70007
 Pohle, H.-J. (with Wolf, Thomas Otto) Automatic determination of dynamical symmetries of ordinary differential equations. (German summary) (Not in MR)
 Polewczak, Jacek Ordinary differential equations on closed subsets of Fréchet spaces with applications to fixed point theorems. 90j:47086
 Qin, Chao Bin (with Qin, Yuan Xun) On a system of second order differential equations with periodic impulse coefficients. 90j:34056
 Qin, Yuan Xun see Qin, Chao Bin, 90j:34056
 Ramgulum, U. see Rogers, Colin, 90e:76041
 Rogers, Colin (with Ramgulum, U.) A nonlinear superposition principle and Lie group invariance: application in rotating shallow water theory. 90e:76041
 Sobotka, Zdeněk Rheological models and solutions of the nonhomogeneous ordinary differential equations. 90i:73052
 Wolf, Thomas Otto see Pohle, H.-J., (Not in MR)
 Yarskii, A. S. Solvability in generalized quadratures of second-order linear differential equations. (Russian) (see 90d:34003)
 Yuldasheva, D. see Asadova, M. Yu., 90g:34003

34A08 Equations not solved with respect to the highest-order derivative, singular solutions

- Bobisud, L. E. (with O'Regan, D.) Existence of solutions to some singular initial value problems. 90b:34003
 Campbell, Stephen L. A computational method for general higher index nonlinear singular systems of differential equations. (see 90m:93003)
 Chernykhov, K. I. see Sobolev, V. A., 90d:34006
 Fomin, V. I. A singular differential equation with a small parameter in the case of a variable bounded operator coefficient. 90f:34005
 Griepentrog, E. (with März, Roswitha) Basic properties of some differential-algebraic equations. (German and Russian summaries) 90d:34004
 Hanke, Michael (with März, Roswitha; Neubauer, A.) On the regularization of linear differential-algebraic equations. 90m:34003
 März, Roswitha Some new results concerning index-3 differential-algebraic equations. 90d:34005
 — Index-2 differential-algebraic equations. 90a:34008
 — see also Griepentrog, E., 90d:34004 and Hanke, Michael; et al., 90m:34003
 Mazanik, S. A. Reducibility of systems of linear differential equations that are not solved with respect to the derivatives. (Russian) 90h:34004
 Neubauer, A. see Hanke, Michael; et al., 90m:34003
 O'Regan, D. see Bobisud, L. E., 90b:34003
 Rabier, P. J. Implicit differential equations near a singular point. 90m:34004
 Skripnik, V. P. Equations with a matrix that is small in L^2 multiplying the derivative. (Russian) 90h:34004
 — Convergence in L^2 of solutions of equations with a small matrix multiplying the derivative. (Not in MR)
 Sobolev, V. A. (with Chernykhov, K. I.) A singularly perturbed differential equation with a Fredholm operator multiplying the derivative. 90d:34006
 Tkachenko, V. I. An invariant torus of a linear system of differential equations with a degenerate matrix multiplying the derivatives. (Russian) (see 90k:00018)
 Webb, Jeffrey R. L. (with Welsh, Stewart C.) Existence and uniqueness of initial value problems for a class of second-order differential equations. 90m:34005
 Welsh, Stewart C. see Webb, Jeffrey R. L., 90m:34005
 Zavallishchin, S. T. The Cauchy formula for singular systems of differential equations. (Russian) 90c:34001

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- Bajić, Vladimir B. see Milić, Mirko M., 90i:34079
 Campbell, Stephen L. Distributional convergence of BDF approximations to solutions of descriptor systems. 90h:34019
 Chambers, L. G. Note on the functional-differential equation $\sum_{m=0}^{\infty} a_m y'(x + m\alpha) = f(x)$. 90g:34082
 Diblík, Josef One theorem on asymptotic behaviour of solutions of a certain system of quasilinear differential equations not solved with respect to derivatives. (German summary) 90f:34093
 — On existence and asymptotic behaviour of solutions of singular Cauchy problem for certain system of ordinary differential equations. 90c:34002
 Dolgii, Yu. F. (with Shimanov, S. N.) The effect of a small delay on the stability of canonical systems of linear differential equations. (Russian) 90i:34109

- Dolák, Z. (with Dolák, O.) On transformations of singular quadratic functionals corresponding to equation $(py')' + qy = 0$. 90c:49032
- Dolák, O. see Dolák, Z., 90c:49032
- Labich, Ch. On linearly implicit extrapolation methods for differential-algebraic equations. (see 90c:00025)
- Malgrange, Bernard Sur le théorème de Maillet. [On the theorem of Maillet] 90f:32005
- Mirza, Rowitha Once more on the backward differentiation formulas applied to higher index differential algebraic equations. (see 90a:00025)
- Milić, Mirko M. (with Bajić, Vladimir B.) Stability analysis of singular systems. 90i:34079
- Okubo, Kenjiro (with Takano, Kyoichi; Yoshida, Setsuji) A connection problem for the generalized hypergeometric equation. 90c:33017
- Roche, M. Runge-Kutta methods for differential algebraic equations: theory and implementation. (see 90a:00025)
- Rutkas, A. G. Classification and properties of solutions of the equation $Ax' + Bx = f(t)$. 90b:34098
- Samkova, G. E. Existence of a formal exponential series of a complex differential system near a fixed singular point. (Russian) 90d:34020
- Shimanov, S. N. see Dolgii, Yu. F., 90i:34109
- Takano, Kyoichi see Okubo, Kenjiro; et al., 90c:33017
- Turner, Kh. T. (with Turdiev, T.) Formulation of a boundary value problem for first-order differential equations of neutral type. (Russian) 90a:34150
- Turdiev, T. see Turner, Kh. T., 90a:34150
- Yokoyama, Toshiaki On the structure of connection coefficients for hypergeometric systems. 90c:39009
- Yoshida, Setsuji see Okubo, Kenjiro; et al., 90c:33017
- Zaidman, Samuel Uniqueness of the Cauchy problem for the equation $Bu'(t) = Au(t)$ in Hilbert spaces. (French summary) 90m:34126
- 34A10 Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions [see also 45D05]**
- Adamchik, V. S. (with Lizarev, A. D.) Wronskians of solutions of a class of differential equations with polynomial coefficients. 90f:34006
- Ad'yutov, M. M. (with Klovov, Yu. A.) An initial value problem for second-order ordinary differential equations with singularities. (Russian) 90f:34007
- Akhmetov, M. U. (with Perestyuk, N. A.) Differentiable dependence of solutions of sampled-data systems on initial data. 90j:34003
- Aly, M. M. see Zaghrout, Afaf A. S., 90i:34006
- Arrate Peña, Manuel Local existence of solutions for ordinary differential equations involving dissipative and compact functions. (Not in MR)
- Ashordiya, M. T. Continuous dependence of the solution of the Cauchy problem for a system of generalized ordinary differential equations on a parameter. (Russian. English and Georgian summaries) 90d:34007
- Atkasev, S. A two-sided approximation method for the generalized Cauchy problem. (Russian) 90d:34008
- Bainov, D. D. see Dishliev, A. B., 90b:34005
- Braverman, E. Ya. Conditions for the unique solvability of the Cauchy problem with impulse actions. (Russian) 90c:34003
- Bressan, Alberto Unique solutions for a class of discontinuous differential equations. 90d:34009
- Burim, V. M. (with Samozdran, A. O.) Asymptotic behavior of the solution of the Cauchy problem for a class of n th-order linear equations. (Ukrainian. Russian summary) 90a:34009
- Deng, Ying see Liang, Yuan Di, (Not in MR)
- Denkowska, Zofia (with Denkowski, Zdzisław) Generalized solutions to ordinary differential equations with discontinuous right-hand sides via Γ -convergence. 90m:34006
- Denkowski, Zdzisław see Denkowska, Zofia, 90m:34006
- Diblík, Josef On existence and asymptotic behaviour of solutions of singular Cauchy problem for certain system of ordinary differential equations. 90c:34002
- DiPerna, R. J. (with Lions, P.-L.) Ordinary differential equations, transport theory and Sobolev spaces. 90j:34004
- Dishliev, A. B. (with Bainov, D. D.) Continuous dependence of the solution of a system of differential equations with impulses on the initial condition. (German and Russian summaries) 90b:34005
- Dolák, Z. (with Dolák, O.) A remark on uniqueness criteria for initial value problem. 90j:34005
- Dolák, O. see Dolák, Z., 90j:34005
- Dzhgarkava, D. T. Volterra-Stieltjes type equations with an integral with respect to a finitely additive set function. (Russian. English and Georgian summaries) 90c:34004
- Fedak, I. V. see Gorbachuk, M. L., (90c:00021)
- Fraňková, Dana Continuous dependence on a parameter of solutions of generalized differential equations. (Russian and Czech summaries) 90b:34002
- Frigon, M. (with O'Regan, D.) On a generalization of a theorem of S. Bernstein. 90c:34004
- Gorbachuk, M. L. (with Fedak, I. V.) The Cauchy problem for a fourth-order operator-differential equation. (Russian) (see 90c:00021)
- Grod, I. N. Continuous dependence on the parameters of the bounded solution of the Riccati differential equation. 90d:34010
- Hammersley, J. M. (with Mazzarino, G.) A differential equation connected with the dendritic growth of crystals. 90c:34005
- Hirano, Masaki (with Yamamoto, Minoru) The uniqueness of periodic solutions of Liénard equations in some domains including the origin. 90b:34005
- Hofmann, Bernd On a particular initial value problem, with an application in reservoir analysis. 90a:34010
- Karelin, B. M. A criterion for the unique solvability of the Cauchy problem in class C^∞ for differential equations with polynomial transformation of the argument. (Russian) 90c:34003
- Katsyber, V. V. A one-sided problem for ordinary differential equations with a constraint on the solution. (Russian) 90f:34008
- Kiventidis, Thomas Structure topologique de certains ensembles de valeurs initiales d'une équation différentielle. (English summary) [Topological structure of certain initial-value sets of a differential equation] 90d:34011
- Klovov, Yu. A. see Ad'yutov, M. M., 90f:34007
- Kostadinov, S. I. see Zabreiko, P. P.; et al., 90a:34012
- Kurepa, Alexandra Existence and uniqueness theorem for singular initial value problems and applications. 90b:34004
- Lazer, A. C. (with McKenna, P. J.) Existence, uniqueness, and stability of oscillations in differential equations with asymmetric nonlinearities. 90a:34011
- Lee, John Walter (with O'Regan, D.) Topological transversality. Applications to initial value problems. 90c:34003
- Liang, Yuan Di (with Deng, Ying) Nonzero initial value problems at isolated singular points for a class of nonlinear differential equations. II. (Chinese. English summary) (Not in MR)
- Lions, P.-L. see DiPerna, R. J., 90j:34004
- Lizarev, A. D. see Adamchik, V. S., 90f:34006
- Mazzarino, G. see Hammersley, J. M., 90c:34005
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- Nguyễn Hồng Thái see Zabreiko, P. P.; et al., 90a:34012
- Nkashama, M. N. A generalized upper and lower solutions method and multiplicity results for nonlinear first-order ordinary differential equations. 90c:34006
- Nowak, Christine see Stettner, H., 90i:34005
- Okrasinski, W. On a nonlinear ordinary differential equation. 90d:34012
- O'Regan, D. see Lee, John Walter, 90c:34003 and Frigon, M., 90c:34004
- Perestyuk, N. A. see Akhmetov, M. U., 90j:34003
- Persson, J. Invariance of the Cauchy problem for distribution differential equations. 90b:34006
- Pron'ko, V. A. A class of third-order equations with an irrational right-hand side without moving critical points. (Russian) (Not in MR)
- Samozdran, A. O. see Burim, V. M., 90a:34009
- Shablinskaya, I. R. Some questions of nonsmooth analysis and problems of optimal control. (Russian. English and German summaries) 90m:34007
- Stettner, H. (with Nowak, Christine) Eine verallgemeinerte Lipschitzbedingung als Eindeigkeitskriterium bei gewöhnlichen Differentialgleichungen. [A generalized Lipschitz condition as criterion of uniqueness in ordinary differential equations] 90i:34005
- Varifor, S. A. A method for solving a trajectory problem under conditions of incomplete information. I. (Russian) (see 90d:00012)
- Wyderka, Zdzisław Linear differential equations with measures as coefficients and the control theory. (Russian and Czech summaries) 90c:34005
- Yamamoto, Minoru see Hirano, Masaki, 90b:34005
- Zabreiko, P. P. (with Kostadinov, S. I.; Nguyễn Hồng Thái) Continuous dependence of solutions of linear differential equations on a parameter. 90a:34012
- Zaghrout, Afaf A. S. (with Aly, M. M.) On linear singular initial value problem. 90i:34006
- Items with secondary classifications in 34A10**
- Abd El-Latif, G. M. see Zaghrout, Afaf A. S., 90f:34072
- Ablowitz, M. J. see Fokas, A. S.; et al., 90b:34007
- Adje, Assohou Existence et multiplicité des solutions d'équations différentielles ordinaires du premier ordre à non-linéarité discontinue. (English summary) [Existence and multiplicity of solutions of first-order ordinary differential equations with discontinuous nonlinearity] 90b:34017
- Bebbouchi, Rachid Unicité des solutions d'une équation différentielle. [Uniqueness of the solutions of a differential equation] (see 90j:03116)
- Blukhin, A. M. (with Mishchenko, E. V.) On the determination of the solutions of a second-order equation. (Russian) 90a:78001
- Bobisud, L. E. (with O'Regan, D.) Existence of solutions to some singular initial value problems. 90b:34003
- Chyan, Chuan J. (with Henderson, Johnny) A note on global existence for boundary value problems. 90f:34028
- Doncher, Tranko D. Stability results for a class of nonlinear differential inclusions in Banach spaces. 90c:34113
- Fokas, A. S. (with Mugan, U.; Ablowitz, M. J.) A method of linearization for Painlevé equations: Painlevé IV, V. 90b:34007
- Gao, Feng Xin (with Hou, Zhan Yuan; Zhang, Zhen Guo) Necessary and sufficient conditions for the existence of periodic solutions of Riccati's equation with periodic coefficients. 90m:34091
- Goff, Stuart (with Saint Mary, Donald F.) The Bohl transformation for second order linear differential systems. 90m:34087
- Granas, A. (with Guenther, R. B.; Lee, John Walter) Existence principles for classical and Carathéodory solutions of nonlinear systems and applications. 90c:34037
- Guenther, R. B. see Granas, A.; et al., 90m:34037
- Halvorsen, S. Gotskalk see Mingarelli, A. B., 90a:34002
- Henderson, Johnny see Chyan, Chuan J., 90f:34028
- Hou, Zhan Yuan see Gao, Feng Xin; et al., 90m:34091
- Hu, Shou Chuan Differential equations with discontinuous nonlinearities. (see 90j:00016)
- Huang, Qing Guang see You, Bing Li, 90b:34108
- Knobloch, H. W. On the dependence of solutions upon the right-hand side of an ordinary differential equation. 90b:33025
- Koblaczky, I. An existence theorem for bounded weak solutions of differential equations in Banach spaces. 90a:34137
- Kur'mina, R. P. On a theorem of H. Poincaré. (Russian) 90m:34122
- Lee, John Walter see Granas, A.; et al., 90m:34037
- Leemert, Roland Existenzsätze für gewöhnliche Differentialgleichungen in geordneten Banachräumen. [Existence theorems for ordinary differential equations in ordered Banach spaces] 90i:34096
- Lê Ngoc Lang (with Ngô Văn Lu'oc) On the existence and uniqueness of solutions for a class of evolution equations. 90c:34115

- The existence and uniqueness of a class of evolution equations. (Vietnamese. English summary) **90f:34101**
- Leroux, Pierre (with Viennot, Gérard Xavier) Résolution combinatoire des systèmes d'équations différentielles. II. Calcul intégral combinatoire. (English summary) [Combinatorial resolution of systems of differential equations. II. Combinatorial integral calculus] **90d:05015**
- März, Roswitha Index-2 differential-algebraic equations. **90a:34008**
- McNabb, Alex (with Weir, Graham) Comparison theorems for causal functional-differential equations. **90e:34126**
- Mingarelli, A. B. (with Halvorsen, S. Gotskalk) ★ Nonoscillation domains of differential equations with two parameters. **90a:34002**
- Mishchenko, E. V. see Blokhin, A. M., **90a:78001**
- Mugan, U. see Fokas, A. S.; et al., **90h:34007**
- Murovsev, A. N. Analytic solutions of a system of nonlinear autonomous differential equations with deviating arguments. (Russian) **90j:34097**
- Naselli Ricci, Ornella A continuous dependence theorem for differential inclusions in Banach spaces. (Italian summary) **90b:34020**
- Ngô Văn Lai's see Lê Ngọc Lăng, **90e:34115**
- O'Regan, D. see Bobisud, L. E., **90h:34003**
- Pachpatte, B. G. On certain nonlinear higher order differential equations. **90a:34026**
- Persson, J. Fundamental theorems for linear measure differential equations. **90a:34036**
- Piotrowski, Witold Investigation of infinite systems of differential equations. **90h:34016**
- Podolsky, S. V. Periodic solutions of nonlinear matrix differential equations. (Russian. English summary) **90a:34028**
- Rabier, P. J. Implicit differential equations near a singular point. **90m:34004**
- Rippl, J.H. Some generalisations of integral transforms and their use in applied dynamics research. **90a:44001**
- Rzepecki, Bogdan A contraction mapping principle and some applications. **90e:54100**
- Saint Mary, Donald F. see Goff, Stuart, **90m:34007**
- Schmidt, Sabina Zwei Existenzsätze für gewöhnliche Differentialgleichungen in Banachräumen. (English summary) [Two existence theorems for ordinary differential equations in Banach spaces] **90i:47069**
- Schwabik, Štefan Generalized differential equations: special results. (Russian summary) **90f:34003**
- Shampine, L. F. Solving Volterra integral equations with ODE codes. **90a:65282**
- Shen, Zu He see Su, Meng, **90a:47161**
- Shi, Jing Hua Global existence and boundedness of solutions for differential systems in the domain $V > 0$. (Chinese) (Not in MR)
- Štáras, Arťanas Two-scale expansions in the theory of multifrequency oscillations. **90g:34039**
- Su, Meng (with Shen, Zu He) Existence and uniqueness of solutions to nonlinear equations. (Chinese. English summary) **90a:47161**
- Tebou, Nicoletta Anna Existence of slow monotone solutions to a differential inclusion. **90a:34026**
- Terjéki, J. On the converse of a theorem of Milloux, Prodi, and Trevisan. **90m:34083**
- Vidossich, Giovanni On the continuous dependence of solutions of boundary value problems for ordinary differential equations. **90j:34036**
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- Webb, Jeffrey R. L. (with Welsh, Stewart C.) Existence and uniqueness of initial value problems for a class of second-order differential equations. **90m:34005**
- Weir, Graham see McNabb, Alex, **90e:34126**
- Welsh, Stewart C. see Webb, Jeffrey R. L., **90m:34005**
- You, Bing Li (with Huang, Qing Guang) Fundamental theory of a class of functional equations and its application in the study of Kneser's theorem. **90h:34108**
- Zaghou, Afaf A. S. (with Abd El-Latif, G. M.) On periodic solutions with small and large amplitudes. **90f:34072**
- Zaidman, Samuel Uniqueness of the Cauchy problem for the equation $Bu'(t) = Au(t)$ in Hilbert spaces. (French summary) **90m:34126**
- Zhang, Zhen Gao see Gao, Feng Xin; et al., **90m:34091**
- ### 34A15 Initial value problems: continuation of solutions
- Hu, Shun Rong A prolongation theorem for ODEs in closed domains. (Chinese. English summary) **90g:34002**
- Langu, Nicolas Continuity of the solutions of Liénard-type systems by two Liapunov functions. (see **90b:00008**)
- Necessary and sufficient conditions for continuability of solutions of Liénard-type systems. **90d:34013**
- Noncontinuation results for generalized Liénard differential systems. (see **90m:00031**)
- Zadverny, B. V. Construction of Lyapunov functions for the investigation of the continuability of solutions. (Russian) **90f:34009**
- Items with secondary classifications in 34A15
- Coomes, Brian A. Polynomial flows on C^* . **90h:58180**
- Dovletov, D. M. A nonlocal boundary value problem of the first kind in a differential and a difference treatment. **90i:34025**
- Huang, Qing Guang see You, Bing Li, **90h:34108**
- Lee, John Walter (with O'Regan, D.) Topological transversality. Applications to initial value problems. **90c:34003**
- Metelskii, A. V. Invertible systems with delay. (Russian. English summary) (Not in MR)
- O'Regan, D. see Lee, John Walter, **90c:34003**
- You, Bing Li (with Huang, Qing Guang) Fundamental theory of a class of functional equations and its application in the study of Kneser's theorem. **90h:34108**
- ### 34A20 Differential equations in the complex domain
- [see also 30D05]
- Ablowitz, M. J. see Fokas, A. S.; et al., **90h:34007**
- Asadova, M. Yu. (with Yuldasheva, D.) Solution of systems of ordinary differential equations by means of complexes. (Russian) **90g:34003**
- Balser, Werner Explicit evaluation of the Stokes' multipliers and central connection coefficients for certain systems of linear differential equations. **90a:34013**
- Meromorphic transformation to Birkhoff standard form in dimension three. **90m:34008**
- Bank, Steven B. On complex oscillation theory. **90d:34014**
- (with Laine, Ilpo; Langley, J. K.) Oscillation results for solutions of linear differential equations in the complex domain. **90m:34009**
- Čadež, Martin Oscillatory properties of second order linear differential equations in the complex domain. **90d:34015**
- Can, Mehmet see Khan, Tariq M., **90f:34011**
- Chalkley, Roger Relative invariants for homogeneous linear differential equations. **90c:34007**
- Cooper, S. Clement (with Magnus, Arne; Jones, William B.) General T -fraction solutions to Riccati differential equations. **90j:34006**
- Ding, Shu Sen Properties of the solutions of the Briot-Bouquet differential equation. (Not in MR)
- Fleissas, George P. New exact solutions of the complex Lorenz equations. **90a:34014**
- Fokas, A. S. (with Mugan, U.; Ablowitz, M. J.) A method of linearization for Painlevé equations: Painlevé IV, V. **90h:34007**
- Frigon, M. Sur l'existence de solutions pour l'équation différentielle $u'(z) = f(z, u(z))$ dans un domaine complexe. (English summary) [On the existence of solutions to the differential equation $u'(z) = f(z, u(z))$ in a complex domain] **90m:34010**
- Gromak, V. I. One-parameter families of solutions of the second Painlevé equation. (Russian. English summary) **90c:34006**
- Autotransformations of the Painlevé equations $(P_4)-(P_6)$. (Russian. English summary) **90f:34010**
- Guha, Partha see Roy Chowdhury, A., **90a:34016**
- Gundersen, Gary G. The deficiencies of meromorphic solutions of certain algebraic differential equations. **90m:34011**
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- Hlavaty, Ladislav The Painlevé classification, dominant truncations and resonance analysis. **90c:34007**
- Ishizaki, Katsuya Admissible solutions of higher order differential equations. **90j:34007**
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- Artykov, A. R. (with Rabinkov, G. A.) Analytic representation of solutions of a three-dimensional autonomous system in a neighborhood of a moving singularity. (Russian) 90b:34071
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- An, You Shan Determination of initial values of ordinary differential equations involving a jump function and its derivatives. (Chinese. English summary) 90a:34020
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- El-Sayed Awad, Labib Rashid On the solvability of systems of linear differential equations with unbounded coefficients. (Russian. Tajiki summary) 90j:34015
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- Grod, I. N. Preservation of a bounded solution of the Riccati equation under small nonlinear perturbation. 90b:34010
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- Jódar, Lucas On the Euler matrix differential equation $A_2 t^2 X'' + A_1 t X' + A_0 X = 0$. (Not in MR)
- (with Navarro, E.) On complete set of solutions for polynomial matrix equations. 90c:34015
- Jones, Gary D. (with Keener, Marvin S.) Asymptotic properties of minors of a Wronskian for $L_n y + p y = 0$. (see 90j:00016)
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- Moravčík, Jozef (with Norkin, S. B.) Weyl's theory and linear systems with a constant matrix. (Russian) (see 90d:34003)
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- Dem'yanchuk, A. P. *see* Molchanov, I. N.; et al., 90a:34057
- Dodd, R. K. (with Eilbeck, J. C.; Gibbon, J. D.; Morris, H. C.) ★ Солитоны и нелинейные волновые уравнения. (Russian) [Solitons and nonlinear wave equations] 90k:35222
- Drazin, P. G. (with Johnson, R. S.) ★ Solitons: an introduction. 90j:35166
- Eilbeck, J. C. *see* Dodd, R. K.; et al., 90k:35222
- Eldeshaer, T. An inverse problem for equations of hyperbolic and mixed type with noncharacteristic degeneration. (Russian) 90k:35262
- Fokas, A. S. (with Mugan, U.; Ablowitz, M. J.) A method of linearization for Painlevé equations: Painlevé IV. V. 90b:34007
- Gibbon, J. D. *see* Dodd, R. K.; et al., 90k:35222
- Gurarii, V. P. *see* Dodd, R. K.; et al., 90k:35222
- Guseinov, I. M. (with Nabiev, I. M.) A class of inverse boundary value problems for Sturm-Liouville operators. 90f:34045
- Hilnastroza, D. *see* Murio, D. A., 90d:65165
- Hoffmann, Karl-Heinz² (with Sprekels, J.) Towards the identification of ordinary differential equations from measurements. 90j:65092
- Hofmann, Bernd On a particular initial value problem, with an application in reservoir analysis. 90a:34010
- Hudson, F. L. *see* Ladouceur, H. Douglas, (90d:90040)
- Ita, A. R. (with Novokshenov, V. Yu.) Effective sufficient conditions for the solvability of an inverse problem of monodromy theory for systems of linear ordinary differential equations. 90c:58167
- Iwasaki, Katsunori On the inverse Sturm-Liouville problem with spatial symmetry. 90c:34034
- Jiang, Zhuban Construction of scattering data for a class of multidimensional scattering operators. 90f:58087
- Johnson, R. S. *see* Drazin, P. G., 90j:35166
- Jordan, A. K. (with Lakshmanasamy, S.) Inverse scattering problem with linearly superposed reflection coefficients. 90c:81251
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- Khenkin, G. M. (with Markushevich, V. M.) Inverse problems for the surface elastic waves in a layered half-space. 90g:73055
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- Klibanov, M. V. Uniqueness of the determination of the distortions of a crystalline lattice by the x-ray diffraction method in a continuous dynamical model. 90i:82054

- Kotlyarov, V. P. (with Khruslov, E. Ya.) Asymptotic solitons of the modified Korteweg-de Vries equation. 90k:35231
- Ladouceur, H. Douglas (with Hutson, F. L.) Asymptotic techniques in inverse scattering: high-frequency profile reconstruction. (see 90d:00040)
- Lakshmanasamy, S. see Jordan, A. K., 90e:81251
- Li, Chih Hao $A \times 2$ Zakharov-Shabat system with a quadratic spectral parameter. 90k:34023
- Analytic properties of a Zakharov-Shabat inverse scattering problem. II. 90k:34039
- On the dissipative evolution equations associated with the Zakharov-Shabat system with a quadratic spectral parameter. 90b:35215
- Li, Yi Shen Eigenvalue problems and inverse scattering methods. (Chinese) 90b:34035
- Lodovici, C. Solution of a direct problem and an inverse problem for a vibrating beam. (Italian. English summary) 90m:35112
- Markushevich, V. M. see Khenkin, G. M., 90g:73055
- (Matsaev, V. I.) see Dodd, R. K.; et al., 90k:35222
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- Molchanov, I. N. (with Dem'yanchuk, A. P.; Tkachenko, V. I.) An approximate determination of a fourth-order ordinary differential operator from the spectrum. (Russian. English summary) 90a:34057
- Morris, H. C. see Dodd, R. K.; et al., 90k:35222
- Mugan, U. see Fokas, A. S.; et al., 90h:34007
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- (Newton, Roger G.) see Chadan, K., 90b:81002
- Nevokshenov, V. Yu. see It's, A. R., 90c:58167
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- Sakhnovich, L. A. Evolution of spectral data, and nonlinear equations. 90g:35150
- Schilling, Randolph James A systematic approach to the soliton equations of a discrete eigenvalue problem. 90k:58171
- (Shabat, A. B.) see Dodd, R. K.; et al., 90k:35222
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- Skelton, P. L. I. see Pearson, D. B., 90k:34025
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- Tautenhahn, U. On parameter identification for ordinary differential equations. (German and Russian summaries) 90c:34016
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- Wycoff, D. (with Kaup, D. J.) Time evolution of the scattering data for the forced Toda lattice. 90m:35190
- Yagle, Andrew E. One-dimensional inverse scattering problems: an asymmetric two-component wave system framework. 90f:65234
- Yamamoto, Masahiro Inverse spectral problem for systems of ordinary differential equations of first order. I. 90b:34040
- Zhivkov, A. I. Isospectral classes of matrix finite-gap operators with symmetries. 90i:58158
- Zhou, Xia Direct and inverse scattering transforms with arbitrary spectral singularities. 90k:34028
- Zhu, Ben Ren Some inverse problems for Hamiltonian systems. (Chinese. English summary) 90a:35228
- ### 34A60 Equations with multivalued right-hand sides [see also 49A50, 49E10]
- Anichini, G. (with Zecca, Pietro) Existence of bounded solutions for set-valued equations in Banach spaces. (Italian summary) 90g:34012
- Asarin, E. A. (with Izmailov, R. N.) Determination of the sliding velocity on a discontinuity surface. 90m:34030
- Aubin, Jean-Pierre Fuzzy differential inclusions. (Russian summary) 90m:34031
- Avgerinos, Evgenios P. (with Papageorgiou, Nikolaos S.) Viable solutions for evolution inclusions. (Serbo-Croatian summary) 90g:34013
- Baidosov, V. A. Differential inclusions with a fuzzy right-hand side. (Russian) (Not in MR)
- Barabanov, N. E. A method for calculating the Lyapunov exponent of a differential inclusion. 90d:34037
- Boudaoud, Mohamed (with Rzezuchowski, Tadeusz) On differential inclusions with prescribed solutions. (Russian and Czech summaries) 90k:34020
- Bressan, Alberto Directionally continuous selections and differential inclusions. 90d:34038
- (with Colombo, Giovanni) Generalized Baire category and differential inclusions in Banach spaces. 90d:34039
- On the qualitative theory of lower semicontinuous differential inclusions. 90c:34022
- Castaing, C. Quelques problèmes d'évolution du second ordre. [Some second-order evolution problems] (see 90a:00015)
- Colombo, Giovanni see Bressan, Alberto, 90d:34039
- Deimling, Klaus On solution sets of multivalued differential equations. 90a:34032
- Multivalued differential equations with usc right-hand side. (see 90j:00016)
- Extremal solutions of multivalued differential equations. II. 90k:34009
- Dontchev, Asen L. (with Farkhi, E. M.) Error estimates for discretized differential inclusion. (German summary) 90f:34023
- Dzhafarov, V. Ya. Approximation of the solutions of differential inclusions with convex right-hand side. (Russian) 90a:34033
- Farkhi, E. M. see Dontchev, Asen L., 90f:34023
- Flytzanis, Elias (with Papageorgiou, Nikolaos S.) Existence of monotone and slow solutions for differential inclusions. 90j:34024
- Frankowska, Halina Estimations a priori pour les inclusions différentielles opérationnelles. (English summary) [A priori estimates for operational differential inclusions] 90c:34023
- Guseinov, Kh. G. (with Ushakov, V. N.) Strongly and weakly invariant sets with respect to a differential inclusion. 90i:34021
- Hu, Shou Chuan Differential equations with discontinuous nonlinearities. (see 90j:00016)
- Izmailov, R. N. see Asarin, E. A., 90m:34030
- Kisilewicz, Michał Subtrajectory integrals of set-valued functions and neutral functional-differential inclusions. 90k:34010
- Klimchuk, S. S. Averaging differential inclusions with an unbounded right-hand side. (Not in MR)
- Kravvaritis, D. (with Papageorgiou, Nikolaos S.) Multivalued perturbations of subdifferential type evolution equations in Hilbert spaces. 90a:34034
- (with Papageorgiou, Nikolaos S.) A random nonlinear multivalued evolution equation in Hilbert space. 90m:34032
- Molchanov, A. P. (with Pyatnitskii, E. S.) Criteria of asymptotic stability of differential and difference inclusions encountered in control theory. 90g:34014
- Mukhsinov, M. A. Differential inclusions with phase constraints in a Hilbert space. (Russian. Tajiki summary) 90d:34040
- Myjak, Józef A remark on Scorza-Dragoni theorem for differential inclusions. (Russian and Czech summaries) 90k:34022
- Naselli Ricci, Ornella A continuous dependence theorem for differential inclusions in Banach spaces. (Italian summary) 90b:34020
- Papageorgiou, Nikolaos S. Convergence theorems for fixed points of multifunctions and solutions of differential inclusions in Banach spaces. (Serbo-Croatian summary) 90g:34015
- Viable and periodic solutions for differential inclusions in Banach spaces. 90k:34021
- On the solution set of differential inclusions with state constraints. 90i:34023
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- Plotnikov, A. V. Averaging differential inclusions with the Hukuhara derivative. 90d:34041
- Polovinkin, E. S. (with Smirnov, G. V.) Continuous mappings into the solution set of a differential inclusion. (Russian) 90d:34042
- Pyatnitskii, E. S. see Molchanov, A. P., 90g:34014
- Rurenko, E. N. On the approximate calculation of the feasibility set for a differential inclusion. (Not in MR)
- Rzezuchowski, Tadeusz see Boudaoud, Mohamed, 90i:34020
- Shi, Shu Zhong Nagumo type condition for partial differential inclusions. 90b:34021
- Viability theorems for a class of differential-operator inclusions. 90c:34025
- Smirnov, G. V. see Polovinkin, E. S., 90d:34042
- Talpalara, Pavel Equivalence of multivalued integro-differential systems. 90f:34024
- Tchou, Nicoletta Anna Existence of slow monotone solutions to a differential inclusion. 90c:34026
- Tolstogorov, A. A. Solutions of a differential inclusion with an unbounded right-hand side. 90b:34022
- Ushakov, V. N. see Guseinov, Kh. G., 90i:34021
- Valadier, M. Quelques résultats de base concernant le processus de rafle. [Some basic results concerning the sweeping process] 90g:34016
- Zecca, Pietro see Anichini, G., 90g:34012
- ### Items with secondary classifications in 34A60
- Aftabizadeh, A. R. (with Pavel, N. H.) Boundary value problems for second order differential equations and a convex problem of Bolza. 90i:34094
- Aubin, Jean-Pierre Smallest Lyapunov functions of differential inclusions. 90d:49007
- Berkovich, L. M. Canonical forms of ordinary linear differential equations. 90a:34083
- Bressan, Alberto (with Cortesi, A.) Lipschitz extensions of convex-valued maps. (Italian summary) 90a:49013
- Unique solutions for a class of discontinuous differential equations. 90d:34009
- (with Cortesi, A.) Directionally continuous selections in Banach spaces. 90k:28024
- Bulgakov, A. I. On the existence of continuous branches in multivalued mappings with nonconvex images in spaces of summable functions. 90a:49014
- Cortesi, A. see Bressan, Alberto, 90a:49013 and 90k:28024
- Donchev, Zdravko D. Stability results for a class of nonlinear differential inclusions in Banach spaces. 90c:34113
- Filippova, T. F. see Kurzanskii, A. B., 90i:49044
- Klimov, V. S. On the problem of periodic solutions of operator differential inclusions. 90h:47109
- Kravvaritis, D. (with Stavrakakis, Nikolaos) An existence theorem for nonlinear random differential inclusions. 90k:34070
- Kurzanskii, A. B. (with Filippova, T. F.) On the set-valued calculus in problems of viability and control for dynamic processes: the evolution equation. 90i:49044
- Levakov, A. A. Use of sign-constant Lyapunov functions for the study of the stability of differential inclusions. 90i:34076
- Stability of functional-differential inclusions. 90f:34121
- Mordukhovich, B. Sh. Optimization and approximation of differential inclusions. 90d:49015
- Mukhsinov, M. A. On the mathematical theory of survival. (Russian. Tajiki summary) (Not in MR)
- Nowak, Andrzej S. Random differential inclusions: measurable selection approach. 90f:60117
- Panasjuk, A. I. Dynamics of attainability sets of control systems. 90b:49055
- On the equation of an integral funnel and its applications. 90f:49033
- Qualitative dynamics of sets that are defined by differential inclusions. 90c:49071

- Papageorgiou, Nikolaos S.** On bounded solutions of differential inclusions in Banach spaces. 90c:34117
- Contributions to the theory of functional-differential inclusions in Banach spaces. (Serbo-Croatian summary) 90c:34153
- On multivalued semilinear evolution equations. (Italian summary) 90c:49048
- Pavel, N. H.** *see* Afsharideh, A. R. 90c:34094
- Plotnikov, V. A.** (with Rudyk, O. G.) A scheme for averaging integro-differential inclusions. (Russian) 90c:45020
- Poffald, Esteban I.** (with Reich, Simeon) A difference inclusion. 90m:47079
- Reich, Simeon** *see* Poffald, Esteban I. 90m:47079
- Rudyk, O. G.** *see* Plotnikov, V. A. 90c:45020
- Rybicki, Longin E.** The existence of viable random solutions of functional-differential inclusions. A fixed point approach. 90m:34124
- Savel'ev, P. N.** Dissipativity of systems of ordinary differential equations in the plane. 90c:34047
- Smirnov, G. V.** Local controllability for differential inclusions. (Russian) 90c:49027
- Extremal problems for differential inclusions with phase constraints. 90c:49072
- Stavrakakis, Nikolaos** *see* Kravvaritis, D. 90c:34070
- Valadier, M.** Lignes de descente de fonctions lipschitziennes non pathologiques. [Descent curves of nonpathological Lipschitzian functions] 90c:49020
- Entrainement unilatéral, lignes de descente, fonctions lipschitziennes non pathologiques. (English summary) [Unilateral driving, descent curves, nonpathological Lipschitzian functions] 90c:49012
- Veřov, V. M.** On the discretization of differential inclusions. (see 90c:65008)

34A99 None of the above, but in this section

- Bobylov, V. N.** A possibilistic argument for irreversibility. (Not in MR)
- Kacwicz, Bolesław Z.** How useful is nonadaptive information for ordinary differential equations? 90m:34033
- Ouyang, He** (with Wu, Yi) On fuzzy differential equations. 90c:34024
- Persson, J.** Fundamental theorems for linear measure differential equations. 90a:34036
- Sit, William Y.** On Goldman's algorithm for solving first-order multinomial autonomous systems. 90c:34025
- Tautenhahn, U.** On parameter identification for ordinary differential equations. (German and Russian summaries) 90c:34016
- Wu, Yi** *see* Ouyang, He, 90c:34024
- Items with secondary classifications in 34A99
- Bayer, D. A.** (with Lagarias, J. C.) The nonlinear geometry of linear programming. I. Affine and projective scaling trajectories. 90h:90098a
- (with Lagarias, J. C.) The nonlinear geometry of linear programming. II. Legendre transform coordinates and central trajectories. 90h:90098b
- Cannon, John R.** (with Koebe, Joseph V.; Schmidt, Rita M.) The determination of rate constants from known linear combinations of concentrations in a chemical reaction. 90j:80019
- Haario, H.** (with Päivrintä, L.; Somersalo, Erkki) On using a dispersion relation in geophysical prospecting. (see 90b:86001)
- Koebe, Joseph V.** *see* Cannon, John R.; et al. 90j:80019
- Lagarias, J. C.** *see* Bayer, D. A. 90h:90098a and 90h:90098b
- Leach, P. G. L.** *see* Mahomed, F. M. 90c:58192
- Mahomed, F. M.** (with Leach, P. G. L.) Equivalence classes of differential equations. 90c:58192
- Päivrintä, L.** *see* Haario, H.; et al. (90b:86001)
- Salikhov, V. Kh.** Irreducibility of a class of hypergeometric equations. (Russian) 90m:12011
- Schmidt, Rita M.** *see* Cannon, John R.; et al. 90j:80019
- Somersalo, Erkki** *see* Haario, H.; et al. (90b:86001)
- Zabov, V. I.** Systems of differential equations with two singular points of regular type. 90c:35069

34Bxx Boundary value problems

- Agarwal, Ravi Prakash** ★ Boundary value problems for higher order differential equations. 90j:34025

Items with secondary classifications in 34Bxx

- (Klokov, Ya. A.) *see* Theory and numerical methods for solving boundary value problems of differential equations, (Not in MR)

Items listed otherwise than by author

Conference:

- Theory and Numerical Methods for Solving Boundary Value Problems of Differential Equations** ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
- Järnåla** ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
- Theory and numerical methods for solving boundary value problems of differential equations** ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)

34B05 Linear equations

- Adomian, George A.** (with Elrod, M.; Rach, R.) A new approach to boundary value equations and application to a generalization of Airy's equation. 90d:34043
- Ad'yutov, M. M.** New boundary value problems of ordinary differential equations and current nonlinear equations in mathematical physics. (Russian) 90c:34027

- Arabshahi, Abdollah** *see* Razzaghi, Mohsen; et al. (Not in MR)
- Arolska-Hekimova, Mariya At.** *see* Bainov, D. D.; et al. 90h:34022
- Bainov, D. D.** (with Arolska-Hekimova, Mariya At.; Veřov, V. M.) Asymptotic procedure for solving boundary value problems for singularly perturbed linear impulsive systems. 90h:34022
- Bespalova, S. A.** (with Klokov, Yu. A.) A generalization of the Blasius equation. (Russian) (see 90j:00013)
- Bogomolova, E. P.** Necessary conditions for the basis property in the direct sum of Sobolev spaces. (Russian) (Not in MR)
- Čerňanová, Viera** On the boundary value problem with matrix parameter. (Russian and Slovak summaries) 90b:34023
- Chakravarty, N. K.** On the asymptotic formulae for the spectral matrix of a differential operator. 90h:34023
- Dol'y, O.** Existence of conjugate points for selfadjoint linear differential equations. 90h:34011
- Dovletov, D. M.** A nonlocal boundary value problem of the first kind in a differential and a difference treatment. 90c:34025
- Dzhumabaev, D. S.** Conditions for the unique solvability of a linear boundary value problem for an ordinary differential equation. (Russian) 90a:34037
- Elrod, M.** *see* Adomian, George A.; et al. 90d:34043
- Henderson, Johnny** Solution matching for boundary value problems for linear equations. 90c:34012
- Jódar, Lucas** An algebraic approach for solving boundary value matrix problems: existence, uniqueness and closed form solutions. 90c:34038
- Kadalbajoo, M. K.** *see* Singh, Arindama, 90h:34024
- Kasymov, K. A.** Estimates for solutions of boundary value problems with initial jumps for second-order linear differential equations. (Russian. Kazakh summary) 90m:34034
- Kathirkamanayagan, M.** (with Ladde, G. S.) Large scale singularly perturbed boundary value problems. 90c:34026
- Klokov, Yu. A.** *see* Bespalova, S. A. (90j:00013)
- Ladde, G. S.** *see* Kathirkamanayagan, M. 90c:34026
- Markowich, Peter A.** (with Ringhofer, C. A.; Schmeiser, Christian) An asymptotic analysis of one-dimensional models of semiconductor devices. 90b:34024
- Meyer, Gunter H.** Continuous orthonormalization with application to Burgers' equation. (see 90c:00003)
- Mitrokhin, S. I.** Calculation of a regularized trace for a second-order differential operator with a discontinuous coefficient. (Russian) (see 90m:00040)
- Möller, Manfred** Equivalence of differential-boundary eigenvalue operators and their characteristic matrices. 90c:34027
- Rach, R.** *see* Adomian, George A.; et al. 90d:34043
- Razzaghi, Mehdi** *see* Razzaghi, Mohsen, 90c:34028; 90h:34013 and (Not in MR)
- Razzaghi, Mohsen** (with Razzaghi, Mehdi) Solution of linear two-point boundary value problems with time-varying coefficients via Taylor series. 90c:34013
- (with Razzaghi, Mehdi) Solution of linear two-point boundary value problems via Taylor series. 90c:34028
- (with Tahai, Alireza; Arabshahi, Abdollah) Solution of linear two-point boundary value problems via Fourier series and application to optimal control of linear systems. (Not in MR)
- (with Razzaghi, Mehdi) Solution of linear two-point boundary value problems and optimal control of time-varying systems by shifted Chebyshev approximations. (Not in MR)
- Ringhofer, C. A.** *see* Markowich, Peter A.; et al. 90b:34024
- Rumyantsev, A. N.** Application of systems of analytic calculations for the study of solvability and construction of an approximate solution of a class of boundary value problems. (Russian) 90c:34029
- Schmeiser, Christian** *see* Markowich, Peter A.; et al. 90b:34024
- Singh, Arindama** (with Kadalbajoo, M. K.) Estimate of boundary layer thickness for linear, singularly perturbed two-point boundary-value problems. 90h:34024
- Spies, Günther Otto** Eigenvalue curves and boundary conditions. 90c:34030
- Tahai, Alireza** *see* Razzaghi, Mohsen; et al. (Not in MR)
- Veřov, V. M.** *see* Bainov, D. D.; et al. 90h:34022
- Vitek, Vladimir** The method of solution of the boundary value problem applied to a certain fourth order differential equation. (Russian and Uzbek summaries) 90m:34035

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- Andreev, A. N.** (with Nemirovskii, Yu. V.) Numerical analysis of the stress-deformed state of layered shells of revolution by the method of invariant imbedding. (Russian. Armenian summary) 90j:73059
- Anyanwu, Donatus Usodimma** Uniform asymptotic solutions of boundary and eigenvalue problems for a second-order ordinary differential equation with singular and turning points. 90c:34057
- Arabshahi, Abdollah** *see* Razzaghi, Mohsen, 90c:34013
- Aziz, A. K.** (with Kellogg, R. B.; Stephens, A. B.) A two point boundary value problem with a rapidly oscillating solution. 90a:65170
- Boichuk, A. A.** Construction of solutions of two-point boundary value problems for weakly perturbed nonlinear systems in critical cases. (Russian) 90j:34027
- Brown, David L.** (with Lorenz, Jens) A high-order method for stiff boundary value problems with turning points. 90a:34030
- D'yadyk, V. K.** (with Ostrovetskii, L. A.) An approximation method for the approximation by polynomials of the solution of a boundary value problem and its derivatives for ordinary linear differential equations. 90h:34016
- Gareeva, T. M.** *see* Pokorniy, Ya. V.; et al. 90h:34027
- Georgescu, Adelina** (with Oprea, Iuliana) The bifurcation curve of the characteristic equation provides the bifurcation point of the neutral curve of some elastic stability. 90i:73061
- de Hoog, F. R.** (with Mattheij, R. M. M.) On the conditioning of multipoint and integral boundary value problems. 90a:34039
- Huang, Bing Sheng** Green functions for boundary value problems for linear nonhomogeneous ordinary differential equations. (Chinese. English summary) 90a:34062
- Jiang, Fu Ru** Boundary value problems for ordinary differential equations with several

- multiple turning points. 90a:34128
- Jódar, Lucas (with Navarro, E.) Co-square roots of matrices and their application to boundary value differential matrix problems. 90e:15014
- Kellogg, R. B. see Aziz, A. K.; et al., 90a:65170
- Lazarev, K. P. see Pokornyi, Yu. V.; et al., 90h:34027
- Lin, Ping A class of variational difference schemes for a singular perturbation problem. 90d:65149
- van Loon, P. M. ★ Continuous decoupling transformations for linear boundary value problems. 90a:65178
- Lorenz, Jens see Brown, David L., 90a:34030
- Maksimov, V. P. (with Rakhmatulina, L. F.) Some properties of the Green matrix. (Russian) 90h:34044
- Mattheij, R. M. M. see de Hoog, F. R., 90a:34039
- McArthur, Kelly M. A collocative variation of the sinc-Galerkin method for second order boundary value problems. (see 90h:93005)
- Navarro, E. see Jódar, Lucas, 90e:15014
- Nemirovskii, Yu. V. see Andreev, A. N., 90j:73059
- Oprea, Iuliana see Georgescu, Adelina, 90j:73061
- Ostrovetskii, L. A. see Dzyadyk, V. K., 90h:34016
- Paris, Richard B. see Wood, Alastair D., 90a:34086
- Pokornyi, Yu. V. (with Lazarev, K. P.; Gareeva, T. M.) Nonlocal boundary value problems for ordinary differential equations. 90h:34027
- Rakhmatulina, L. F. see Maksimov, V. P., 90h:34044
- Razaghi, Mohsen (with Arabshahi, Abdollah) Solution of linear two-point boundary value problems via polynomial series. 90c:34013
- Samarakaya, T. A. Absolute and uniform convergence of expansions in root functions of a nonlocal boundary value problem of the first kind. 90i:40022
- Stephens, A. B. see Aziz, A. K.; et al., 90a:65170
- Stuart, A. M. Existence of solutions of a two-point free-boundary problem arising in the theory of porous medium combustion. 90j:80017
- Weissinger, Johannes A kind of difference methods for enclosing solutions of ordinary linear boundary value problems. (German summary) 90h:65138
- Wood, Alastair D. (with Paris, Richard B.) Asymptotics of a model equation for optical tunnelling. 90b:34086
- Yunusov, M. Yu. A nonstandard boundary value problem that contains a small parameter. 90j:47013

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- Boichuk, A. A. Construction of solutions of two-point boundary value problems for weakly perturbed nonlinear systems in critical cases. (Russian) 90j:34027
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- Kaufmann, Franz-Josef Derived Birkhoff-series associated with $N(Y) = \lambda P(Y)$. 90c:34027
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- Tepin, A. L. On the sign of the Green difference function. 90d:39005
- Wang, Hual Zhong An iteration method for differential-difference equations with left and right shifts. (Chinese. English summary) 90i:34100

34B30 Special equations (Mathieu, Hill, Bessel, etc.) [see also 33--XX]

- Ashbaugh, M. S. Optimization of the characteristic values of Hill's equation subject to a p -norm constraint on the potential. 90m:34066
- Athorne, C. On a subclass of Liouville equations. 90m:34067
- Mironenko, V. I. A reflection function of the Hill equation. 90a:34063
- Zhilyaev, A. I. Some spectral properties of the Bessel differential operator. 90b:34041
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- Bybliv, O. Ya. (with Lenyuk, M. P.) Hankel integral transforms of the first kind for piecewise-homogeneous segments with an application to problems in mathematical physics. (Russian) 90b:44001
- Halvorsen, S. Gotskalk see Mingarelli, A. B., 90a:34002
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- Lin, Ch'ing Ho (with Sibuya, Y.) Some applications of isomonodromic deformations to the study of Stokes multipliers (a summary). (see 90j:00016)
- Markett, Clemens Product formulas and convolution structure for Fourier-Bessel series. 90i:33012
- Mingarelli, A. B. (with Halvorsen, S. Gotskalk) ★ Nonoscillation domains of differential equations with two parameters. 90a:34002
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- Thouless, D. J. Scaling for the discrete Mathieu equation. 90m:82004
- Wang, Cun Qi Some necessary and sufficient conditions for the AKNS equation when $r = q^*$ to have a special gap potential. (Chinese) 90g:35154

34B99 None of the above, but in this section

- Penkin, O. M. see Pokornyi, Yu. V., 90b:34045
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- Bock, Hans Georg ★ Randwertproblemmethoden zur Parameteridentifizierung in Systemen nichtlinearer Differentialgleichungen. (German) [Boundary value problem methods for parameter identification in systems of nonlinear differential equations] 90b:93029
- Golovina, V. G. see Ved', Yu. A., 90m:39013
- Uvah, J. A. (with Vatsala, A. S.) Monotone method for first order singular systems with boundary conditions. 90m:34021
- Vatsala, A. S. see Uvah, J. A., 90m:34021
- Vavilov, S. A. A method for solving a trajectory problem under conditions of incomplete information. I. (Russian) (see 90d:00012)
- Ved', Yu. A. (with Golovina, V. G.) A limit boundary value problem for systems of second-order difference equations. (Russian) 90m:39013

34Cxx Qualitative theory

- Mickens, R. E. Calculation of oscillatory properties of the solutions of two coupled, first order nonlinear ordinary differential equations. (Not in MR)

Items with secondary classifications in 34Cxx

- (Samoilenko, A. M.) see Differential equations with a parameter, 90k:00018

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- Differential equations with a parameter ★ Дифференциальные уравнения с параметром. (Russian) [Differential equations with a parameter] 90k:00018

34C05 Location of integral curves, singular points, limit cycles

- Akhramenko, V. K. (with Sadovskii, A. P.) Necessary conditions for a center for a differential system with a complex singular point. 90a:34064
- Alwash, M. A. M. On limit cycles of polynomial vector fields with one critical point. (Arabic summary) 90m:34068
- On a condition for a centre of cubic nonautonomous equations. 90m:34069
- Amelkin, V. V. Existence of limit cycles of two-dimensional autonomous systems of differential equations. 90d:34055
- Asarova, A. Simultaneous existence of singular points of a dynamical system. (Russian) 90d:34056
- Bagaudina, T. E. Investigation of bifurcations in systems of differential equations in a plane that are close to conservative. (Russian) 90b:34042
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- Bulabaev, D. Correction to: "Conditions for the presence of a singular point of center type of a general quadratic differential system" [Mat. Issled. No. 99 (1988), Dinam. Sistemy Uravn. Mat. Fiz., 32-49; MR 89f:34039]. (Russian) 90f:34054
- Cai, Sui Lin see Zhang, Ping Guang, 90j:34051
- Caldas, I. L. (with Tasso, H.) Limit cycles of periodically forced oscillations. 90b:34043
- Chen, Chao Yi On the existence of exact n limit cycles for the Liénard's type differential equation. 90f:34055
- Cheng, Yuan Ji Criteria for the problem of classifying the limit circles of second-order differential equations. (Chinese) 90c:34052
- Coll, Bartomeu (with Gasull, Armengol; Llibre, J.) Uniqueness of limit cycles for a class of Liénard systems with applications. 90i:34048
- Coppel, W. A. Some quadratic systems with at most one limit cycle. 90d:34057
- Ding, Tong Ren An extension of the Massera theorem. 90c:34053
- Driss, Bularan (with Vulpe, N. I.; Sibirskii, K. S.) Solution of a problem of the center "in the large" for a general quadratic differential system. (Not in MR)
- Falka, N. S. Boundedness of limit sets of systems of perturbed motions. (Russian) 90b:34047
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- Han, Mao An Existence of limit cycles for quadratic systems with one infinite singular point. 90i:34049

- Jin, Xiao Fan (with Wang, Dong Ming) On the conditions of Kukles for the existence of a centre. 90m:34071
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- Kotova, A. Yu. A theorem on the finiteness of a number of limit cycles in quadratic systems. (Russian) 90f:34058
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- Inoue, Masakazu A method analyzing the bifurcation of almost-periodic oscillation and generation of chaos in a parametric excitation circuit. **90b:34064**
- Krasnosel'skii, M. A. (with Pokrovskii, A. V.) The averaging principle for systems with hysteresis. (Russian) **90a:34091**
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- Pokrovskii, A. N. Averaging in a system of impulsively connected subsystems that undergo discontinuous oscillations. (Russian) **90a:34052**
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- Samoilenko, A. M. Mitropol'skii's methods for the asymptotic integration of systems in nonlinear mechanics. (Russian) **90b:34066**
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- Saribaev, M. Justification of the averaging method for two-frequency systems on an infinite time interval. (Ukrainian. Russian summary) **90d:34085**
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- Appell, Jürgen (with Diallo, O. W.; Zabreiko, P. P.) On linear integro-differential equations of Barbashin type in spaces of continuous and measurable functions. **90a:45007**
- Asafeva, M. N. On the justification of the averaging method in systems with instantaneous change in the case of resonance. (Russian) **90k:70016**
- Bainov, D. D. (with Milusheva, S. D.) The method of partially multiplicative averaging in the problems of terminal control. **90g:93049**
- Bigun, Ya. I. (with Fodchuk, V. I.) Investigation of a boundary value problem for functional-differential equations by the averaging method. (Russian) **90a:34130**
- Carrillo Calvet, Humberto The averaging method and the persistence of attractors. **90c:58092**
- Chow, Shui-Nee (with Lü, Ke Ning) Center unstable manifolds in quasiperiodic and averaging systems. **90d:34113**
- Diallo, O. W. see Appell, Jürgen; et al., **90a:45007**
- Fodchuk, V. I. see Bigun, Ya. I., **90a:34130**
- Gelig, A. Kh. (with L'yanova, N. I.) A circular criterion for the stability of nonlinear sampled-data systems with a new kind of quadratic relation. **90c:93079**
- Grace, S. R. Oscillation theorems for second order nonlinear differential equations with damping. **90k:34034**
- Gal'ka, S. S. Averaging in systems of integro-differential equations with impulse action. (Russian) **90g:45017**
- Ivanyuk, N. V. Application of the averaging method for systems of integro-differential equations with multivalued impulse action. (Russian) (see **90d:00011**)
- Klimchuk, S. S. Averaging differential inclusions with an unbounded right-hand side. (Not in MR)
- Kogan, M. M. (with Neimark, Yu. I.) A study of identifiability in adaptive control systems by the averaging method. **90c:93102**
- see also Neimark, Yu. I.; et al., **90a:39008**
- Kurbatov, V. G. Efficient estimation in the averaging principle. **90j:34072**
- Lobanova, N. I. Application of the averaging method to the investigation of the stability of solutions of countable systems. (Russian) **90d:34032**
- Lopatina, A. K. see Mitropol'skii, Ya. A., **90d:58002**
- Lü, Ke Ning see Chow, Shui-Nee, **90d:34113**
- Luczka, Jerzy On the averaging method in the weak-coupling theory of quantum open systems. **90c:82019**
- L'yanova, N. I. see Gelig, A. Kh., **90c:93079**
- Milusheva, S. D. see Bainov, D. D., **90g:93049**
- Mitropol'skii, Ya. A. (with Lopatin, A. K.) Asymptotic decomposition of completely integrable Pfaffian systems with a small parameter. **90d:58002**
- Neimark, Yu. I. (with Ronin, E. I.; Kogan, M. M.) The averaging method under random perturbations. (Russian) **90a:39008**
- see also Kogan, M. M., **90c:93102**
- Plotnikov, A. V. Averaging differential inclusions with the Hukuhara derivative. **90d:34041**
- Plotnikov, V. A. (with Rudyk, O. G.) A scheme for averaging integro-differential inclusions. (Russian) **90j:45020**
- (with Rudyk, O. G.) An averaging scheme in integro-differential equations. **90m:45018**
- Ronin, E. I. see Neimark, Yu. I.; et al., **90a:39008**
- Rudyk, O. G. see Plotnikov, V. A., **90j:45020** and **90m:45018**
- Samoilenko, A. M. (with Sukhomlin, A. A.) The averaging method for difference multifrequency systems. (Russian. English summary) **90m:39010**
- (with Stanzhitskii, A. N.) Fluctuations in an averaging scheme for differential equations with random impulse action. **90b:34095**
- Schwabik, Stefan Generalized differential equations: special results. (Russian summary) **90f:34003**
- Stanzhitskii, A. N. Averaging in stochastic systems with random impulse action. (Ukrainian. Russian summary) **90f:60059**
- see also Samoilenko, A. M., **90b:34095**
- Sukhomlin, A. A. The averaging method for difference multifrequency oscillatory systems. (Russian) **90g:39011**
- see also Samoilenko, A. M., **90m:39010**
- Tsarkov, E. F. ★ Случайные возмущения дифференциально-функциональных уравнений. (Russian) [Random perturbations of functional-differential equations] **90m:34164**
- Yatsenko, T. P. Asymptotic investigation of a linear-quadratic control problem. **90d:93039**
- Yurachkovskii, A. P. see Anisimov, V. V., **90j:93102**
- Zabreiko, P. P. see Appell, Jürgen; et al., **90a:45007**

34C30 Manifolds of solutions

- Bainov, D. D. (with Kostadinov, S. I.; Nguyễn Hồng Thái; Zabreiko, P. P.) Existence of integral manifolds for impulsive differential equations in a Banach space. **90i:34070**
- Baris, Ya. S. A method of constructing approximate integral manifolds. **90b:34068**
- Gurteva, A. S. On a study of integral manifolds of quasilinear systems. (Russian) **90f:34075**
- Hájek, Otomar Subcritical manifolds. (see **90j:00016**)
- Kayumov, D. Kh. (with Sattarov, F. Kh.) Two-dimensional limit manifolds of a three-dimensional homogeneous system of differential equations. (Russian) **90c:34076**
- Knobloch, H. W. A method for construction of invariant manifolds. (Russian summary) **90d:34087**
- Dichotomy and integral manifolds. II. Proof of the continuation principle. **90k:34053**
- Kostadinov, S. I. see Bainov, D. D.; et al., **90i:34070**
- Kurbanshoev, S. Z. see Valeev, K. G., **90b:34070**
- Nguyễn Hồng Thái see Bainov, D. D.; et al., **90i:34070**
- Qin, Yuan Xun Recent progress in the theory of integral surfaces defined by ordinary differential equations. (Chinese. English summary) **90a:34093**
- New developments in the theory of integral surfaces defined by ordinary differential equations. (Chinese) (Not in MR)
- Reizipi, Linards Discrimination problems in neighborhoods of exceptional cones. (Russian) **90b:34069**
- Sattarov, F. Kh. see Kayumov, D. Kh., **90c:34076**
- Valeev, K. G. (with Kurbanshoev, S. Z.) Existence and properties of optimal integral manifolds. (Russian. Tajiki summary) **90b:34070**

- Vokrosenkii, E. V. The asymptotic behavior and a homeomorphism of solutions of differential equations on manifolds. 90c:34077
 Zabrejko, P. P. *see* Babin, D. D.; et al., 90i:34070

Items with secondary classifications in 34C30

- Baris, Ya. S. (with Lykova, O. B.) Application of approximate integral manifolds in stability theory. (Russian) 90m:34115
 — (with Lykova, O. B.) Integral manifolds and the reduction principle in stability theory. I. (Russian) 90m:34097
 Battelli, Flaviano (with Lazzari, Claudio) Asymptotic expansions obtained by a center manifold theorem. (Italian summary) 90b:34081
 Chernyshov, K. I. *see* Sobolev, V. A., 90b:34006
 Chow, Shui-Nee (with Lü, Ke Ning) C^k centre unstable manifolds. 90a:58148
 Grod, I. N. On the existence of an invariant manifold for some irregularly perturbed systems. (Russian) 90m:58182
 Grudo, E. I. Structure of the solutions of an autonomous Pfaffian system with two pure imaginary roots of the characteristic equation. 90i:58005
 Hirsch, Morris W. Systems of differential equations which are competitive or cooperative. III. Competing species. 90d:58070
 Kalitina, B. S. Stability in the presence of an invariant surface. (Russian) 90i:58090
 Kolesov, A. Yu. (with Mishchenko, E. F.) Existence and stability of a relaxation torus. (Not in MR)
 Lazzari, Claudio *see* Battelli, Flaviano, 90b:34081
 Li, Ke Ning *see* Chow, Shui-Nee, 90a:58148
 Lykova, O. B. *see* Baris, Ya. S., 90m:34097 and 90m:34115
 Mawhin, J. (with Willem, M.) ★ Critical point theory and Hamiltonian systems. 90e:58016
 Mishchenko, E. F. *see* Kolesov, A. Yu., (Not in MR)
 Muzassarov, A. *see* Valeev, K. G., 90d:58140
 Shpakovich, O. V. Smoothness with respect to the parameter of an exponentially dichotomous invariant torus of a quasilinear system of differential equations. (Russian) 90b:34061
 Sobolev, V. A. (with Chernyshov, K. I.) A singularly perturbed differential equation with a Fredholm operator multiplying the derivative. 90d:34006
 Takar, S. P. C^∞ -equivalence of systems of differential equations with exponential asymptotic behavior of the solutions in a neighborhood of an invariant manifold. (Russian) 90b:58141
 Valeev, K. G. (with Muzassarov, A.) Construction of a 0-manifold of solutions of a nonlinear dynamical system. (Russian) 90d:58140
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- 34C35 Dynamical systems [see also 54H20, 58Fxx, 70-XX]**
- Artykov, A. R. (with Rabinkov, G. A.) Analytic representation of solutions of a three-dimensional autonomous system in a neighborhood of a moving singularity. (Russian) 90b:34071
 Bagrova, A. I. (with Matvienko, A. M.) Investigation of thermodynamic processes by means of Lyapunov functionals. (Russian) 90e:34078
 Bobrowski, Dobiesław Distribution of solution of discrete time dynamical system. 90b:34062
 Dresselhaus, E. (with Tabor, M.) The persistence of strain in dynamical systems. 90m:34095
 Eshmuradov, K. On the character of the boundaries of the cells of a three-dimensional dynamical system. (Russian) 90c:34050
 Fonda, Alessandro Uniformly persistent semidynamical systems. 90a:34094
 Freedman, H. I. (with Moson, P.) Persistence definitions and their connections. 90b:34054
 Kertész, V. Notes on a theorem of M. Farkas. 90a:34095
 Kozlov, Valerii V. Polynomial integrals of dynamical systems with one-and-a-half degrees of freedom. 90j:34060
 Liao, Xiao Xia (with Wu, Wei Hua) Necessary and sufficient conditions for stability with respect to part of the variables in linear dynamical systems. (Chinese) (Not in MR)
 Matveev, N. M. (with Stolyarov, V. V.) Closed trajectories of a dynamical system. (Russian) (see 90i:00001)
 Matvienko, A. M. *see* Bagrova, A. I., 90e:34078
 Moson, P. *see* Freedman, H. I., 90b:34054
 Mrozek, Marian Leray functor and cohomological Conley index for discrete dynamical systems. 90f:34076
 Rabinkov, G. A. *see* Artykov, A. R., 90b:34071
 Reinfelds, Andrejs A reduction theorem for extensions of dynamical systems. (Russian) 90m:34096
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 Tabor, M. *see* Dresselhaus, E., 90m:34095
 Wu, Wei Hua *see* Liao, Xiao Xia, (Not in MR)
 Zanolin, Fabio Some remarks about persistence for differential systems and processes. 90f:34077
- Items with secondary classifications in 34C35
- Afraimovich, V. S. Attractors. 90j:58074
 Anosov, D. V. On infinite curves on a torus and on closed surfaces of negative Euler characteristic. (Russian) 90g:58109
 Bazykin, A. D. (with Kuznetsov, Yuri Aleksandrovich; Khibnik, A. I.) ★ Повторная бифуркация. (Russian) [Bifurcation portraits] 90i:58135
 Belinskii, Jorge A. A complete set of invariants for a quasi-transversal Hopf bifurcation. 90i:58147
 Bertozzi, Andrea Louise Heteroclinic orbits and chaotic dynamics in planar fluid flows. 90c:58106
 Bunimovich, L. A. (with Sinai, Ya. G.) Spacetime chaos in coupled map lattices. 90d:58073
 Cheban, D. N. Some problems in the theory of dissipative dynamical systems. I. (Russian) 90a:54054
 Chow, Shui-Nee (with Lin, Xiao-Biao; Palmer, Kenneth J.) A shadowing lemma with applications to semilinear parabolic equations. 90d:58090
 Cicogna, G. (with Gaeta, Giuseppe) Bifurcations, symmetries and maximal isotropy subgroups. (Italian and Russian summaries) 90f:58127
 Conley, Charles C. The gradient structure of a flow. I. 90e:58136
 Coven, Ethan M. (with Kan, Ittai; Yorke, James A.) Pseudo-orbit shadowing in the family of tent maps. 90b:58236
 Cushing, J. M. A competition model for size-structured species. 90e:92078
 Donnay, Victor J. Geodesic flow on the two-sphere. II. Ergodicity. 90e:58127b
 — Geodesic flow on the two-sphere. I. Positive measure entropy. 90e:58127a
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 Ermentrout, A. E. Some functional equations connected with the iteration of rational functions. (Russian) 90m:30030
 Flashner, H. (with Guttalu, R. S.) A computational approach for studying domains of attraction for nonlinear systems. 90c:58104
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 Fried, David Counting circles. 90c:58157
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 Garry, Barnabas M. Uniform persistence and chain recurrence. 90b:54049
 Gasull, Armengol (with Llibre, J.) On the nonsingular quadratic differential equations in the plane. 90f:58141
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 Greenberg, Peter (with Porter, Michael) A generalization of geodesic flow. 90c:58141
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 Hale, Jack K. (with Waltman, Paul) Persistence in infinite-dimensional systems. 90b:58156
 Han, Mao An The rotation number and direction of a continuous flow on the torus. 90c:58158
 — A geometric property of vector fields on \mathbb{R}^n . (Chinese summary) 90b:58202
 Hayakawa, Eijiro Regularization of vector fields by Easton type surgery. 90a:58150
 Hiraide, K. Nonexistence of positively expansive maps on compact connected manifolds with boundary. 90m:54051
 Hirsch, Morris W. The dynamical systems approach to differential equations [Bull. Amer. Math. Soc. (N.S.) 11 (1984), no. 1, 1-64; MR 85m:58060]. (Hungarian) (Not in MR)
 Hmissi, Mohamed Cones de potentiels stables par produit et systèmes semi-dynamiques. (English summary) [Potential cones stable by product and semidynamical systems] 90b:31010
 Izé, A. F. An infinite-dimensional extension of theorems of Hartman and Wintner on monotone positive solutions of ordinary differential equations. 90m:34128
 Kalitina, B. S. On a problem of Florio and Seibert. (Russian) 90e:54025
 Kan, Ittai *see* Coven, Ethan M.; et al., 90b:58236
 Kawai, Takahiro Systems of linear differential equations of infinite order: an aspect of infinite analysis. 90j:58139
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 Kirchgraber, U. A dynamical system approach to some ODE codes. (Russian summary) 90f:65114
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 — Symmetry groups of dynamical systems. 90g:58116
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 Letwin, M. I. On the domain of asymptotic stability of the invariant set of a dynamical system that does not possess the property of uniform change of distance. 90d:34114
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 — On perturbations of stable manifolds (continued). (Chinese. English summary) 90b:58218b
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 Millionschikov, V. M. A generic property of linear systems of ordinary differential equations. (Russian) 90d:58071
 — A generic property of Lyapunov exponents of linear systems of differential equations. (Russian. Kazakh summary) 90d:34096
 — A generic property of Lyapunov exponents of linear systems of differential equations of different classes. (Russian. Kazakh summary) 90d:34095
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 Neimark, Ya. I. (with Landa, P. S.) ★ Стохастические и хаотические колебания. (Russian) [Stochastic and chaotic oscillations] 90g:58080
 Ott, Edward (with Grebogi, Celso; Yorke, James A.) Theory of first order phase transitions for chaotic attractors of nonlinear dynamical systems. 90b:58185
 Palmer, Kenneth J. *see* Chow, Shui-Nee; et al., 90d:58090
 Porter, Michael *see* Greenberg, Peter, 90c:58141
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 Samoilenko, V. Gr. A method for constructing implectic and recursion operators of completely integrable dynamical systems. (Russian) 90d:58060
 Sinai, Ya. G. *see* Bunimovich, L. A., 90d:58073
 Steeb, W.-H. (with van Tonder, A. J.) A comment on Lax representation, first integrals, Painlevé analysis and Nambu mechanics. 90e:58067
 Strantzas, Polychronis Eine Charakterisierung der D^+ -stabilen dynamischen Systeme auf lokal kompakten metrisierbaren Räumen. [A characterization of the D^+ -stable dynamical systems on locally compact metrizable spaces] 90j:54041
 Strelcyn, J.-M. (with Wojciechowski, S.) A method of finding integrals for three-dimensional dynamical systems. 90b:58139
 van Tonder, A. J. *see* Steeb, W.-H., 90e:58067
 Tongue, Benson H. (with Gu, Keqin) A theoretical basis for interpolated cell mapping. 90a:54027
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Turaev, D. V. Bifurcations of a homoclinic "figure eight" of a multidimensional saddle. 90m:58156

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Wojciechowski, S. A new test for integrability of Riccati systems of equations. 90d:58066 — *see also* Strekyn, J.-M., 90b:58139

Yorke, James A. *see* Ott, Edward; et al., 90b:58185 and Coven, Ethan M.; et al., 90b:58236
Yoshida, Haruo Ziglin analysis for proving nonintegrability of Hamiltonian systems. 90b:58093

34C40 Equations and systems on manifolds [See mainly 58Fxx, 58Gxx]

Baris, Ya. S. (with Lykova, O. B.) Integral manifolds and the reduction principle in stability theory. I. (Russian) 90m:34097

Filippov, M. G. On the reducibility of systems with almost periodic perturbation. (Russian) 90m:34098

Lykova, O. B. *see* Baris, Ya. S., 90m:34097

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Asada, Akira Monodromy of a differential equation having a quadratic nonlinear term. 90b:58007

Baldassarri, F. (with Dwork, B.; Tovena, F.) On singular projective structures on Riemann surfaces. 90m:30058

Belouqui, Jorge A. A complete set of invariants for a quasi-transversal Hopf bifurcation. 90b:58147

Cima, Anna (with Llibre, J.) Bounded polynomial vector fields. 90g:58083

Das, Ashok (with Okubo, Susumu) A systematic study of the Toda lattice. 90b:58045

Dodson, M. M. (with Rynne, B. P.; Vickers, J. A. G.) Averaging in multifrequency systems. 90d:34084

Dwork, B. *see* Baldassarri, F.; et al., 90m:30058

Fernandes, M. L. (with Zanolin, Fabio) Repelling conditions for boundary sets using Liapunov-like functions. I. Flow-invariance, terminal value problem and weak persistence. 90c:58091

Galkin, O. G. Resonance regions for Mathieu-type dynamical systems. 90b:58186

Han, Mao An Existence of closed or singular closed orbits of continuous flows on surfaces. (Chinese summary) 90b:58230

Iooss, G. Global characterization of the normal form for a vector field near a closed orbit. 90c:58129

— (with Rossi, Maurice) Hopf bifurcation in the presence of spherical symmetry: analytical results. 90g:58087

Khan, I. S. *see* Petrov, Nikolai Nikolaevich, 90b:58203

Kozlov, Valeri V. Bifurcation of solutions, and polynomial integrals in an invertible system on a torus. 90a:58131

Kukushkin, A. P. Control of motion in an arcwise connected space. (Russian) 90b:49032

Kulik, A. N. Application of methods for the approximation of functions in the theory of the stability of the invariant tori of dynamical systems. (Russian) 90b:34079

Lerman, L. M. Hamiltonian systems with a separatrix loop of a saddle-center. (Russian) 90g:58036

Llibre, J. *see* Cima, Anna, 90g:58083

Mai, Jie Hua Besicovitch's topological transformations of plane and Birkhoff's conjecture. 90d:58082

Moreira, M. B. Stability of attracting sets in the metric R_0 with respect to C^0 -perturbations. 90b:58136

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Osipenko, G. S. Coordinates near an invariant manifold. (Russian) 90m:58112

Petrov, Nikolai Nikolaevich (with Khan, I. S.) Limit sets for trajectories of dynamical polynomials. 90b:58203

Reich, Sebastian Algebroidifferentialgleichungen und Vektorfelder auf Mannigfaltigkeiten. [Algebraic-differential equations and vector fields on manifolds] 90j:58136

Rossi, Maurice *see* Iooss, G., 90g:58087

Rynne, B. P. *see* Dodson, M. M.; et al., 90d:34084

Tkachenko, V. I. The Green function and conditions for the existence of invariant sets of sampled-data systems. (Russian) 90j:34077

Tovena, F. *see* Baldassarri, F.; et al., 90m:30058

Vickers, J. A. G. *see* Dodson, M. M.; et al., 90d:34084

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34C45 Method of integral manifolds

Bogatyrev, S. V. (with Sobolev, V. A.) Separation of fast and slow motions in problems of the dynamics of systems of rigid bodies and gyroscopes. 90a:34096

Kokotović, Petar V. (with Sauer, Peter W.) Integral manifold as a tool for reduced-order modeling of nonlinear systems: a synchronous machine case study. 90b:34072

Kulik, V. I. Invariant tori of linear extensions of dynamical systems of triangular type. (Russian) 90b:34073

Sauer, Peter W. *see* Kokotović, Petar V., 90b:34072

Sobolev, V. A. *see* Bogatyrev, S. V., 90a:34096

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Gu, Zhong-Mei (with Nefedov, N. N.; O'Malley, R. E., Jr.) On singular singularly perturbed initial value problems. 90c:34062

Iooss, G. Global characterization of the normal form for a vector field near a closed orbit. 90c:58129

Knobloch, H. W. Dichotomy and integral manifolds. II. Proof of the continuation principle. 90b:34053

Nefedov, N. N. *see* Gu, Zhong-Mei; et al., 90c:34062

O'Malley, R. E., Jr. *see* Gu, Zhong-Mei; et al., 90c:34062

Sobolev, V. A. Integral manifolds, stability and decomposition of singularly perturbed systems in Banach space. 90f:34102

— (with Chernyshov, K. I.) A singularly perturbed differential equation with a Fredholm operator multiplying the derivative. 90d:34006

— *see also* Goldstein, V. M.; et al., 90b:58176

Vorob'ev, N. N., Jr. *see* Zubov, I. V., 90f:93002

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Zubov, I. V. (with Vorob'ev, N. N., Jr.) ★ Качественный анализ процессов управления. (Russian) [Qualitative analysis of control processes] 90f:93002

34C99 None of the above, but in this section

Andres, Ján (with Mikolajski, Jaroslaw; Palát, Jindřich) Über die Trichotomie von Lösungen einer nichtlinearen Vektordifferentialgleichung zweiter Ordnung. (Russian and Czech summaries) [On the trichotomy of solutions of a nonlinear second-order vector differential equation] (Not in MR)

Boimotov, K. Kh. (with Lizorkin, P. I.) Estimates for the growth of solutions of differential equations. 90j:34061

Chen, Xiao Xing A simple disproof of Milliončikov's example. 90b:34063

Fedotova, L. L. *see* Momot, I. P.; et al., (90k:00018)

Herold, H. Anwendung des Vergleichssatzes auf k -Diskonjugiertheit. [Application of the comparison theorem to k -disconjugacy] (Not in MR)

Kantemir, I. I. *see* Momot, I. P.; et al., (90k:00018)

Karimzhanov, A. *see* Martynyuk, A. A., 90a:34097

Lizorkin, P. I. *see* Boimotov, K. Kh., 90j:34061

Martynyuk, A. A. (with Karimzhanov, A.) Limiting equations and stability of nonstationary motions. 90a:34097

Mikolajski, Jaroslaw *see* Andres, Ján; et al., (Not in MR)

Momot, I. P. (with Kantemir, I. I.; Fedotova, L. L.) Qualitative analysis of a dynamical system on a plane with corner points. (Russian) (see 90k:00018)

Palát, Jindřich *see* Andres, Ján; et al., (Not in MR)

Robinson, F. N. H. Experimental observation of the large-amplitude solutions of Duffing's and related equations. (Not in MR)

Seke, Bobo Régionalisations et van der Pol épaissi. [Regionalizations and thick van der Pol systems] 90a:34098

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Anbin, Jean-Pierre Qualitative simulation of differential equations. 90b:68158

Kwapisz, Marian Some remarks on comparison theorems for discrete inequalities. 90f:39009

Li, Jian Hua² (with Michel, A. N.; Porod, W.) Qualitative analysis and synthesis of a class of neural networks. 90b:92021

Michel, A. N. *see* Li, Jian Hua²; et al., 90b:92021

Ogorzaek, Maciej J. On the analysis of nonlinear circuits governed by constrained differential equations. (see 90m:94004)

Porod, W. *see* Li, Jian Hua²; et al., 90b:92021

Sharkawi, I. E. On a solution of the operator differential equation with variable coefficients. 90a:44007

Shen, Wen Xian Numerical analysis of the dynamical behavior of the equation of J-J type. 90f:58095

Skachkov, B. N. Conditions for the dissipativity of an n th order equation. (Russian) 90m:34112

Utkin, G. A. *see* Vessnitskii, A. L., 90a:70027

Vessnitskii, A. L. (with Utkin, G. A.) Motion of a body along a string under the action of wave pressure forces. 90a:70027

Zhang, Xin Jun *see* Zhu, Si Ming, (Not in MR)

Zhu, Si Ming (with Zhang, Xiu Jun) Mei'nikov's method and its error estimation. (Chinese) (Not in MR)

34Dxx Stability theory [see also 58F10, 93Dxx]

Graef, John R. (with Spikes, Paul W.; Hatvani, L.; Karsai, J.) Some stability-type results for second order nonlinear differential equations. (see 90f:00003)

Hatvani, L. *see* Graef, John R.; et al., (90f:00003)

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Bainov, D. D. (with Simeonov, P. S.) ★ Systems with impulse effect. 90i:93082

Harris, Christopher J. (with Valenca, J. M. E.) ★ Устойчивость динамических систем с обратной связью. (Russian) [The stability of feedback dynamical systems] 90g:93070

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Savchenko, A. Ya. (with Ignat'ev, A. O.) ★ Некоторые задачи устойчивости неавтономных динамических систем. (Russian) [Some problems in the stability of nonautonomous dynamical systems] 90b:34002

Schwabik, Štefan Generalized differential equations: special results. (Russian summary) 90f:34003

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(Tolmachov, V. V.) *see* Harris, Christopher J., 90g:93070

Valenca, J. M. E. *see* Harris, Christopher J., 90g:93070

Wang, Dong Ming Computer algebraic methods for investigating plane differential systems of center and focus type. 90f:34004

34D05 Asymptotic properties; characteristic exponents

Abakirov, T. Sh. Inequalities between auxiliary and central exponents. 90b:34071

— Auxiliary exponents. (Russian) 90b:34079

- Aftman, A. K. (with Chekhovoi, Yu. N.) Conditions for the stability of the trivial solution of some quasilinear dynamical systems. (Russian) 90h:34064
- Alvarez, Carlos (with Tineo, Antonio) Asymptotically stable solutions of Lotka-Volterra equations. (Serbo-Croatian summary) 90d:34088
- Amosova, N. D. see Sofronov, E. T., 90c:34079
- Antipin, A. S. Continuous and iterative processes with projection operators and projection-type operators. (Russian) 90c:34072
- Bagrova, A. I. (with Matvienko, A. M.) A divergence condition for asymptotic stability in the large. (Russian) 90d:34089
- Bainov, D. D. see Kulev, G. K., 90a:34099; Simeonov, P. S., 90a:34102 and Kulev, G. K., 90c:34066
- Barabanov, E. A. Distribution of lower Perron exponents of linear differential systems on lines in a phase space. 90g:34047
- Berezanskii, L. M. Some properties of higher and general exponents of a linear functional-differential equation. (Russian) 90d:34090
- Berger, B. S. (with Rokni, M.) The Lyapunov spectra of partially coupled dynamical systems. 90d:34091
- (with Rokni, M.) Least squares approximation of Lyapunov exponents. 90g:34048
- Bespyasak, L. G. (with Skibenko, V. P.) On the construction of domains of asymptotic stability. II. (Russian) (see 90a:00009)
- Chekhovoi, Yu. N. see Aftman, A. K., 90h:34064
- Drik, N. G. Asymptotic behavior of solutions of a nonlinear second-order differential equation in a special case. (Russian) 90g:34049
- El-Nahas, A. A study on the stability of a periodic solution of a general nonlinear n th order differential equation. 90d:34092
- Freedman, H. I. (with Sree Hari Rao, V. S.; Joseph W.-H.) Asymptotic behavior of a time-dependent single-species model. 90g:34050
- Howe, A. Sufficient conditions for the strong stability of the differential equation $[p(D) + f(t)q(D)]y = 0$. 90h:34065
- Ignatiev, A. O. Preservation of the property of uniform asymptotic stability with respect to some of the variables. 90c:34086
- Ilarianova, O. G. Auxiliary exponents of linear systems of differential equations. (Russian. English and Georgian summaries) 90f:34078
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- Izobov, N. A. (with Makarov, E. K.) Lyapunov irregular linear systems with a parameter multiplying the derivative. 90g:34051
- see also Volkov, I. A., 90d:34099; Prokhorova, R. A., 90j:34063 and Volkov, I. A., 90j:34064
- Kalas, J. see Ráb, Miloš, 90h:34067
- Kolesov, A. Yu. (with Kolesov, Yu. S.; Mishchenko, E. F.; Rozov, N. Kh.) Asymptotic integration of the variational system of a multidimensional relaxation cycle. I. (Russian) 90d:34093
- (with Kolesov, Yu. S.; Mishchenko, E. F.; Rozov, N. Kh.) Asymptotic integration of the variational system of a multidimensional relaxation cycle. II. (Russian) 90d:34094
- Kolesov, Yu. S. see Kolesov, A. Yu.; et al., 90d:34093 and 90d:34094
- Kulev, G. K. (with Bainov, D. D.) Asymptotic stability of systems with impulses by the direct method of Lyapunov. 90a:34099
- (with Bainov, D. D.) Global stability of sets for systems with impulses. 90h:34066
- Lakshmikantham, V. (with Liu, Xinzhi) On asymptotic stability for nonautonomous differential systems. 90k:34055
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- Lin, Mu Ren Linear systems and exponential dichotomies. 90a:34100
- Lin, Xinzhi see Lakshmikantham, V., 90k:34055
- Magnitskii, N. A. The method of characteristic functions in stability theory. 90j:34062
- Makarov, E. K. see Izobov, N. A., 90j:34051
- Matvienko, A. M. see Bagrova, A. I., 90d:34089
- Millionshchikov, V. M. A generic property of Lyapunov exponents of linear systems of differential equations. (Russian. Kazakh summary) 90d:34096
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- Lyapunov exponents as functions of a parameter. 90c:34083
- Mishchenko, E. F. see Kolesov, A. Yu.; et al., 90d:34093 and 90d:34094
- Murakami, Kouichi (with Yamamoto, Minoru) On the asymptotic property of the ordinary differential equation. 90d:34097
- Nudel'man, M. A. A special case of a problem on the absolute stability of systems of ordinary differential equations. (Not in MR)
- Ositka, Jan Asymptotic stability of two-dimensional linear differential systems. (Russian. English and Georgian summaries) 90d:34098
- Prokhorova, R. A. (with Izobov, N. A.) Unstable linear systems of R. Conti. (Russian) 90j:34063
- Qian, Chuan Xi On global asymptotic stability of a kind of third-order nonlinear systems. (Chinese summary) (Not in MR)
- Ráb, Miloš (with Kalas, J.) Stability of dynamical systems in the plane. 90h:34067
- Rokni, M. see Berger, B. S., 90d:34091 and 90g:34048
- Rozov, N. Kh. see Kolesov, A. Yu.; et al., 90d:34093 and 90d:34094
- Safonova, M. A. Lyapunov characteristic exponents of systems of directly coupled oscillators. (Russian) 90a:34101
- Sergeev, I. N. Lyapunov exponents of regular systems with perturbations that are small in the mean. (Russian. English summary) 90b:34074
- Simeonov, P. S. (with Bainov, D. D.) Exponential stability of the solutions of the initial value problem for systems with an impulse effect. 90a:34102
- Skibenko, V. P. see Bespyasak, L. G., (90a:00009)
- Se, Joseph W.-H. see Freedman, H. I.; et al., 90g:34050
- Sofronov, E. T. On the asymptotic stability in the large of a system of four equations. (Russian) 90c:34084
- (with Amosova, N. D.) Asymptotic stability in the large in a special case. (Russian) 90c:34079
- Sree Hari Rao, V. see Freedman, H. I.; et al., 90g:34050
- Surlin, T. L. Exponents of regular Lappo-Danilevskii systems. (Russian) 90c:34085
- Tang, Jin Long Stability of the null solution to a class of nonautonomous nonlinear large-scale systems. (Chinese. English summary) (Not in MR)
- Tineo, Antonio see Alvarez, Carlos, 90d:34088
- Trzeźniarz, Andrzej L'équivalence asymptotique au sens de Ważewski: un analogue d'un théorème de Levinson. (English and Russian summaries) [Asymptotic equivalence in the sense of Ważewski: an analogue of a theorem of Levinson] 90i:34073
- Tsukamoto, Ichiro On a full spectrum condition for 2-dimensional linear quasi-periodic systems. 90c:34051
- Volkov, I. A. (with Izobov, N. A.) Connectivity components of a set of characteristic exponents of a differential system with higher-order perturbations. (Russian. English summary) 90d:34099
- (with Izobov, N. A.) A set of lower Perron exponents for a differential system with higher-order perturbations. (Russian. English summary) 90j:34064
- Vorotnikov, V. I. Stability of motion with respect to some of the variables. 90c:34074
- Wada, Teruyo (with Yamamoto, Minoru) Asymptotic stability theorems for a nonlinear second order differential equation. 90d:34100
- Some results on asymptotic stability by extending Matrosov's theorems. 90h:34068
- Yamamoto, Minoru see Murakami, Kouichi, 90d:34097 and Wada, Teruyo, 90d:34100
- Yan, Xing Min Asymptotic stability of solutions of nonlinear systems. (see 90j:00023)

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- Ammar, A. A. see El-Owaidy, H., 90b:92046
- Arnold, Ludwig (with Kloeden, Peter) Lyapunov exponents and rotation number of two-dimensional systems with telegraphic noise. 90f:93062
- Bainov, D. D. see Simeonov, P. S., 90a:34099 and Kulev, G. K., 90d:34107
- Barabanov, N. E. A method for calculating the Lyapunov exponent of a differential inclusion. 90d:34037
- Bulajich, Radmila (with Esteva Peralta, Lourdes) Characterization of strange sets. (Spanish) 90c:58108
- Cairó, L. (with Feix, M. R.; Goedert, J.) Invariants for models of interacting populations. 90m:92048
- Chiang, Hsiao-Dong Study of the existence of energy functions for power systems with losses. 90c:94055
- El-Owaidy, H. (with Ammar, A. A.) Mathematical model of population interactions with dispersal: stability of two habitats with a predator. 90b:92046
- Esteva Peralta, Lourdes see Bulajich, Radmila, 90c:58108
- Falko, N. S. On the classification of Lyapunov-stable dynamical systems of perturbed motions. (Russian) 90h:54047
- Feix, M. R. see Cairó, L.; et al., 90m:92048
- Fomenko, I. V. Global conditions for the existence of self-oscillatory regimes in autonomous control systems. 90m:34086
- Giorgi, Claudio (with Marzocchi, A.) Some problems of stability for an elastoplastic oscillator. (Italian. English summary) 90a:73062
- Glover, Joseph (with Lazer, A. C.; McKenna, P. J.) Existence and stability of large scale nonlinear oscillations in suspension bridges. 90c:34037
- Goedert, J. see Cairó, L.; et al., 90m:92048
- Hatvani, L. Asymptotic stability of equilibria of damped mechanical systems. 90k:70015
- Hu, Shi Gang Asymptotic behavior of a class of ecological systems of cooperating species. (Chinese. English summary) 90m:92055
- Izobov, N. A. The measure of the solution set of a linear system with the largest lower exponent. (Russian) 90b:34010
- Kloeden, Peter see Arnold, Ludwig, 90f:93062
- Kosov, A. A. On the problem of stability of motion with respect to some of the variables. (Russian) 90f:34086
- Kulev, G. K. (with Bainov, D. D.) On the asymptotic stability of systems with impulses by the direct method of Lyapunov. 90d:34107
- Kushner, H. J. Approximations and optimal control for the pathwise average cost per unit time and discounted problems for wideband noise-driven systems. 90c:93113
- Ladas, G. (with Partheniadis, E. C.; Schinas, J.) Oscillation and stability of second order differential equations with piecewise constant argument. (Scandinavian summary) 90g:34034
- Lazer, A. C. (with McKenna, P. J.) Existence, uniqueness, and stability of oscillations in differential equations with asymmetric nonlinearities. 90a:34011
- see also Glover, Joseph; et al., 90c:34037
- Li, Jian Hua² (with Michel, A. N.; Porod, W.) Analysis and synthesis of a class of neural networks: linear systems operating on a closed hypercube. 90k:92015
- Lu, Zheng Yi On the LaSalle's invariant set for five-dimensional Lotka-Volterra prey-predator chain systems. 90j:92024
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- McKenna, P. J. see Lazer, A. C., 90a:34011 and Glover, Joseph; et al., 90c:34037
- Meisters, Gary Hosler (with Olech, Czesław) Solution of the global asymptotic stability Jacobian conjecture for the polynomial case. 90b:58135
- Michel, A. N. see Li, Jian Hua²; et al., 90k:92015
- Millionshchikov, V. M. Formulas for the Lyapunov exponents of linear systems of differential equations. (Russian. English and Georgian summaries) 90a:58088
- Moaurio, Vincio (with Negrini, Piero) On the inversion of Lagrange-Dirichlet theorem. 90g:70017
- Murakami, Kouichi (with Yamamoto, Minoru) On the attractivity properties for ordinary differential equations. 90m:58126
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- Peng, Xiao Lin On the stability of a class of nonlinear differential equations. (Chinese. English summary) 90m:34105
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- Preda, P. On a Perron condition for evolutionary processes in Banach spaces. 90c:34065
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- Sergeev, I. N. Sharp bounds on the mobility of the Lyapunov exponents of linear Hamiltonian systems under small average perturbations. (Russian. English summary) 90i:58170
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- Sokolov, D. V. Asymptotics of the integrated density of states and the Lyapunov exponent with a large coupling constant. (Russian) **90c:82045**
- Sosnitskii, S. P. Asymptotic motions of nonholonomic Chaplygin systems. **90c:70028**
- Stewart, Ian Stability of periodic solutions in symmetric Hopf bifurcation. **90c:58133**
- Wada, Teruyo (with Yamamoto, Minoru) Globally asymptotic stability of solutions of ordinary differential equations. **90d:34111**
- Wang, Wei* Bifurcations and chaos of the Bonhoeffer-van der Pol model. **90i:58132**
- Wedig, W. Stability of nonlinear stochastic systems. **90i:93136**
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- Weiss, George Weak L^p -stability of a linear semigroup on a Hilbert space implies exponential stability. **90c:47073**
- Yamamoto, Minoru see Wada, Teruyo, **90d:34111** and Murakami, Kouichi, **90m:58126**
- Zhao, Hui Zhong The asymptotic behavior of ordinary differential equations. I. (Chinese. English summary) **90i:34080**
- Zubov, V. I. Systems of differential equations with two singular points of regular type. **90i:35069**

34D10 Perturbations

- Anashkin, O. V. (with Khapaev, Mikhail Mikhailovich) The comparison method and investigation of the stability of systems of ordinary differential equations containing perturbations. II. **90c:34086**
- Bainov, D. D. see Milov, N. V., **90f:34081**; Kulev, G. K., **90h:34069** and **90h:34070**
- Battelli, Flaviano (with Lazzari, Claudio) Generalized Melnikov functions and existence of bounded solutions in systems with parameters. **90c:34087**
- Budinčević, M. see Kulenović, M. R. S., **90a:34104**
- Chan, C. K. see Soh, C. B., **90j:34066**
- Furumochi, Tetsuo Uniform asymptotic stability in perturbed differential equations. **90c:34103**
- Gabrielyan, M. S. (with Shaginyan, S. G.) Instability of systems of differential equations under small integral perturbations. (Russian. English and Armenian summaries) (Not in MR)
- Garashchenko, F. G. Some problems in the stability and optimization of the dynamics of beams. (Russian) **90j:34065**
- Grigor'ev, F. N. (with Kistlerov, V. L.) Application of computer algebra methods in analyzing the stability of linear dynamical systems. (Not in MR)
- Hausrath, Alan R. (with Manásevich, Raúl) Stability properties of periodic solutions of periodically forced nondegenerate systems. **90c:34080**
- (Hewer, Gary A.) see Soh, C. B., **90j:34104**
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- Kistlerov, V. L. see Grigor'ev, F. N., **90c:34087**
- Kulenović, M. R. S. (with Budinčević, M.) L^p -perturbations of linear differential equations. (Serbo-Croatian summary) **90a:34104**
- Kulev, G. K. (with Bainov, D. D.) Global stability of sets for systems with impulses. **90c:34069**
- (with Bainov, D. D.) Stability of sets for impulsive systems. **90h:34070**
- Lazzari, Claudio see Battelli, Flaviano, **90c:34087**
- Levin, A. Yu. A criterion for absolute nonoscillatory stability for n th order equations. **90d:34101**
- Liao, Xiao Xin (with Qian, Ji Lin) Some new results for stability of interval matrices. **90d:34102**
- Lin, Mu Ren The perturbations of linear systems. **90i:34075**
- Magnitskii, N. A. On the stability of closed time-dependent controllable systems. (Russian. English summary) (Not in MR)
- Manásevich, Raúl see Hausrath, Alan R., **90c:34080**
- Martin, Jorge Mariano see Soh, C. B., **90d:34104**
- Martynuk, A. A. Hierarchical matrix Lyapunov function. **90c:34088**
- The Lyapunov hierarchical matrix function and stability under structural perturbations. (Not in MR)
- Milov, N. V. (with Bainov, D. D.) Stability of linear systems of differential equations with variable structure and impulse effect. **90f:34081**
- Mukherjee, Rathindra Nath¹ (with Raghavendra) Some results on stability of differential systems with impulsive perturbations. **90f:34082**
- Ohe, Takashi (with Yamamoto, Minoru) On the exponentially asymptotic stability of a perturbed nonlinear system. **90c:34071**
- Petkovski, Djordjija B. New time domain stability robustness measures for linear systems. (Russian summary) **90f:34083**
- Qian, Ji Lin see Liao, Xiao Xin, **90d:34102**
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- Rama Mohana Rao, M. (with Sivasundaram, S.) Perturbing Liapunov functions and Lagrange stability in terms of two measures. **90d:34103**
- Roginskii, G. K. Asymptotic behavior of solutions of a weakened Cauchy problem for a differential equation with a variable unbounded operator in a Banach space. **90c:34089**
- Shaginyan, S. G. see Gabrielyan, M. S., (Not in MR)
- Sivasundaram, S. see Rama Mohana Rao, M., **90d:34103**
- Soh, C. B. Comments on: "Smallest destabilizing perturbations for linear systems" [Internat. J. Control **45** (1987), no. 5, 1495–1504; MR **88j:34105**] by J. M. Martin and G. A. Hewer. **90d:34104**
- (with Chan, C. K.) Destabilizing perturbations for linear systems. **90j:34066**
- Yamamoto, Minoru see Ohe, Takashi, **90c:34071**
- Yaroshchik, G. O. Unusual linearization and exponential stability. (Russian) **90f:34084**
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- Beretta, Eduardo A homotopy technique for a linear generalization of Volterra models. **90f:92031**
- Chen, H. Tz. (with Douglas, A. S.; Malek-Madani, R.) An asymptotic stability condition for inhomogeneous simple shear. **90g:73070**
- Chen, Ye-Hwa (with Hsu, Chieh Su) Structural decomposition approach for the stability of uncertain dynamic systems. **90a:93092**

- Chuang, Yao T'ang (with Shao, Chin-Shen) Stability analysis of dynamic interval systems. **90c:93086**
- Dannan, Fozl M. (with Elaydi, S.) Lipschitz stability of nonlinear systems of differential equations. II. Liapunov functions. **90m:34102**
- Deif, A. * Sensitivity analysis in linear systems. **90f:34002**
- Desoer, Charles A. (with Kabuli, M. G.) Linear stable unity-feedback system: necessary and sufficient conditions for stability under nonlinear plant perturbations. **90h:93091**
- Douglas, A. S. see Chen, H. Tz.; et al., **90g:73070**
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- Futák, Ján On (φ, L_p) -stability of perturbed nonlinear differential equation in Banach space. **90b:34096**
- Garashchenko, F. G. (with Pantelienko, L. A.) Calculation of parameter tolerances of dynamical systems by methods of practical stability. (Russian) **90d:93075**
- González Gómez, M. J. (with de la Sen, Manuel) On the reduction method versus the stability of ordinary linear differential equations with unknown coefficients. **90c:93081**
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- Ignat'ev, A. O. Preservation of the property of uniform asymptotic stability with respect to some of the variables. **90c:34080**
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- Khusainov, D. Ya. (with Kozhametov, A. T.) Optimization of estimates for initial perturbations in linear stochastic systems. (Russian) **90i:34087**
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- Petkovski, Djordjija B. Iterative algorithm for improved measures of stability robustness for linear state-space models. **90g:93067**
- Pritchard, Anthony J. (with Townley, Stuart B.) Robustness of linear systems. **90a:34132**
- Rachid, A. Comments on: "Another sufficient condition for the stability of interval matrices" [Internat. J. Control **47** (1988), no. 1, 181–186; MR **89c:93072**] by Chung Li Jiang. **90a:93094**
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- Rotea, Mario A. (with Khargonekar, Pramod P.) Stabilization of uncertain systems with norm bounded uncertainty—a control Lyapunov function approach. **90c:93061**
- Samovol, V. S. Linearization of a system of ordinary differential equations in a neighborhood of a singular point of saddle type. (Russian. English summary) **90d:34076**
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- Shao, Chin-Shen see Chuang, Yao T'ang, **90c:93086**
- Shecheglov, V. A. Perturbations that preserve the exponential stability and instability of regular multidimensional discrete systems. (Russian) (see **90m:93001**)
- Simó, Carles Stability of Hamiltonian systems. (Catalan) **90g:58038**
- Soh, Y. C. Strict Hurwitz property of polynomials under coefficient perturbation. **90d:93077**
- Sontag, Eduardo D. Smooth stabilization implies coprime factorization. **90b:93092**
- Townley, Stuart B. see Pritchard, Anthony J., **90a:34132**
- Valeev, K. G. (with Nasimov, K. A.) A study of the stability of solutions of a system of linear differential equations under the action of random processes. (Russian) (see **90b:00010**)
- Volkov, I. A. (with Izobov, N. A.) Connectivity components of a set of characteristic exponents of a differential system with higher-order perturbations. (Russian. English summary) **90d:34099**

34D15 Singular perturbations

- Ladde, G. S. (with Rajalakshmi, S. G.) Study of large scale nonlinear systems with singular perturbations. **90j:34067**
- Lin, Su Rong see Lin, Zong Chi, **90c:34052**
- Lin, Zong Chi (with Lin, Su Rong) Singularly perturbed phenomena of semilinear second order systems. **90c:34052**
- Markechko, M. I. Asymptotic stability of singularly perturbed differential equations. **90m:34100**
- Rajalakshmi, S. G. see Ladde, G. S., **90j:34067**
- Romanyuk, I. I. A study of a singularly perturbed system. (Russian) (see **90k:00019**)
- Items with secondary classifications in 34D15
- Kuz'mina, L. K. Acceptability of simplified equations in the dynamics of gyroscopic systems. **90c:70006**
- Lin, Su Rong see Lin, Zong Chi, **90c:34050**
- Lin, Zong Chi (with Lin, Su Rong) Singular perturbation of nonlinear Robin boundary value problem with boundary perturbation. **90a:34050**
- Wang, Zhen Quan (with Xu, Ke Kang) Design of a robust controller for MRAC systems with models of reduced order. (Chinese. English summary) **90c:93067**
- Xu, Ke Kang see Wang, Zhen Quan, **90c:93067**

34D20 Lyapunov stability

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- I.; Malikov, A. I.; Matrosov, V. M.) ★ Метод векторных функций Ляпунова в теории устойчивости. (Russian) [The method of vector Lyapunov functions in stability theory] 90b:34075
- Some criteria for practical instability of differential systems. (Russian) 90b:34090
- Abgaryan, K. A. On the problem of the stability of linear time-dependent systems. (Not in MR)
- Aleksandrov, V. V. Absolute stability of imitation dynamical systems in the first approximation. 90d:34105
- Aminov, A. B. (with Sirazetdinov, T. K.) The method of Lyapunov functions in problems of multistability of motion. 90b:34052
- Anapol'skii, L. Ya. see Abdullin, R. Z.; et al., 90b:34075
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- Bajic, Vladimir B. see Milic, Mirko M., 90b:34079
- Baltinow, M. A. On the boundary of the domain of stability of the Mathieu equation. (Russian) (see 90a:00004)
- Barabanov, A. T. (with Starozhilov, E. F.) Investigation of the stability of solutions of continuous discrete systems by Lyapunov's second method. 90b:34068
- Bernfeld, S. R. (with Salvadori, L.; Visentin, F.) Bifurcation for periodic differential equations at resonance. 90b:34069
- Bulgakov, A. Ya. Generalization of a matrix Lyapunov equation. 90b:34070
- Cheng, Yuan Ji Partial stability of periodic linear systems. (Chinese. English summary) 90m:34101
- Chernetskaya, L. N. see Martynyuk, A. A., 90b:34055
- Chia, Philip S. M. Stability results for the solutions of certain fourth-order autonomous differential equations. 90d:34106
- Dannan, Fozl M. (with Elaydi, S.) Lipschitz stability of nonlinear systems of differential equations. II. Liapunov functions. 90m:34102
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- Eleftheriadi, Yu. I. A. M. Lyapunov's conjecture on second-order equations, and multiple series. (Russian) (see 90m:00032)
- Garashchenko, F. G. Study of practical stability problems by numerical methods and optimization of beam dynamics. 90b:34056
- Gil', M. I. Stability of essentially nonlinear time-dependent systems. 90b:34071
- Gurevich, V. M. Locally positive-definite functionals in the theory of the stability of solutions of differential equations. (Russian) (see 90d:34003)
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- He, Meng Xing A Lyapunov-type theorem and its inverse. (Chinese. English summary) 90f:34085
- Huang, Li Min A new method for analyzing the stability of large-scale systems. (Chinese. English summary) (Not in MR)
- Ivukhin, E. V. (with Shatyro, A. V.) A sufficient condition for the stability of linear multidimensional systems. (Russian) (Not in MR)
- Kastrina, O. A. Extremal perturbation of a functional that is defined on a spectrum of the Lyapunov function. (Russian) 90a:34105
- Kavalayanskas, A. P. On the problem of the synchronization of two unbalanced vibrators. (Russian. English summary) 90b:34092
- Khasainov, D. Ya. see Zhusupova, A. G., 90a:34112
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- Kosov, A. A. On the problem of stability of motion with respect to some of the variables. (Russian) 90f:34066
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- Kozlov, R. I. see Abdullin, R. Z.; et al., 90b:34075
- Kulev, G. K. (with Bainov, D. D.) On the asymptotic stability of systems with impulses by the direct method of Lyapunov. 90d:34107
- (with Bainov, D. D.) Stability of sets for systems with impulses. 90d:34108
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- Kurbatov, V. G. Efficient estimation in the averaging principle. 90b:34072
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- (with Liu, Xinzhi) Stability criteria for impulsive differential equations in terms of two measures. 90b:34076
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- (with Liu, Xinzhi) On quasistability for impulsive differential systems. 90m:34103
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- Li, Li Ming Stationary oscillation of higher-dimensional nonautonomous systems. (Chinese. English summary) 90b:34077
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- Lutsenko, A. V. see Korobov, V. I., 90b:34072
- Lyao, Syaolin On the stability of motion with respect to some variables for linear systems. (Russian) (Not in MR)
- Magnitskii, N. A. Stability of solutions of a class of nonlinear nonautonomous systems of differential equations in critical cases. 90b:34075
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- Matrosov, V. M. see Abdullin, R. Z.; et al., 90b:34075
- Matrosov, N. I. Vector-valued Lyapunov functions in the study of critical cases. (Russian) 90a:34106
- Meilakhs, A. M. On the existence of Lyapunov functions for stable differential inclusions. (Russian) (see 90d:00018)
- Miliev, N. V. (with Bainov, D. D.) Stability of linear systems of differential equations with variable structure and impulse effect. 90b:34076
- Milic, Mirko M. (with Bajic, Vladimir B.) Stability analysis of singular systems. 90b:34079
- Mukhtarov, Ya. M. Criteria for the stability of the zero solution of a homogeneous system of the fifth degree. (Russian) (see 90c:00008)
- Neishtadt, A. I. Prolongation of the loss of stability in the case of dynamic bifurcations. II. 90a:34107
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- Novikov, M. A. On the sign-definiteness of analytic functions. II. (Russian) 90d:34110
- Ortega, Rafael Stability of a periodic problem of Ambrosetti-Prodi type. 90m:34104
- Peng, Xiao Lin On the stability of a class of nonlinear differential equations. (Chinese. English summary) 90m:34105
- Persidskii, S. K. (with Stepanov, A. V.) The application of forms of arbitrarily high order as Lyapunov functions. (Russian) 90c:34054
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- Raptunovich, N. A. The use of sign-constant Lyapunov functions in the investigation of stability. (Russian) (see 90m:34001)
- Răsvan, V. see Halanay, A.; et al., 90b:34054
- Ramyantsev, V. V. Stability and stabilization of motion with respect to some of the variables. (Russian) 90b:34087
- Saito, Seiji Global stability of solutions for quasilinear ordinary differential systems. 90b:34057
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- Simsonov, P. S. (with Bainov, D. D.) Convergence to a constant of the solutions of differential equations with impulse effect. 90a:34108
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- Stepanov, A. V. Application of higher-order forms in studying stability. (Russian) 90m:34106
- see also Persidskii, S. K., 90c:34054
- Tang, Mu Zhong Stability of second-order ordinary differential equations. (Chinese) 90b:34058
- Uteshev, A. Yu. On the existence of a polynomial Lyapunov function. (Russian) 90b:34075
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- Voronov, A. A. see Abdullin, R. Z.; et al., 90b:34075
- Wada, Teruyo (with Yamamoto, Minoru) Globally asymptotic stability of solutions of ordinary differential equations. 90d:34111
- Xu, Cheng Long Generalization of stability theorem. 90a:34109
- Yakubovich, V. A. Absolute stability of nonlinear periodic systems. (Russian) 90f:34088
- Yamamoto, Minoru see Wada, Teruyo, 90d:34111
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- Zabreiko, P. P. (with Bainov, D. D.; Kostadinov, S. I.) Stability of linear equations with impulse effect. 90d:34112
- Zabreiko, Z. On the uniform stability of a system of differential equations with complex coefficients. 90b:34076
- Zampieri, Gaetano Some problems in stability of the equilibrium related to coexistence of solutions to Hill's equations. (see 90f:00003)
- Zappala, Giuseppe On total instability. 90a:34110
- Zeitman, A. I. Stability of a linear system. (Russian) (see 90a:00009)
- Zemlyakov, A. S. see Abdullin, R. Z.; et al., 90b:34075
- Zhang, Yi' Stability of the dynamical system $dx/dt = A(t)x$. (Chinese. English summary) 90b:34078
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- Zhao, Jun San A criterion for the stability of motion of nonlinear system. 90a:34111
- Zhong, Hong Fa Global stability of nonlinear variable coefficient systems with separated variables. (Chinese. English summary) (Not in MR)
- Zhusupova, A. G. (with Khasainov, D. Ya.) Optimization of an estimate for the domain of variation of parameters in systems of indirect control. (Russian) 90a:34112
- Zubov, V. I. Integral invariants of asymptotically stable systems of differential equations. 90b:34094
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- Aminov, A. B. (with Sirazetdinov, T. K.) Conditions for a sum of forms to have a fixed sign and for the stability of motion on manifolds. 90b:58132
- Aubin, Jean-Pierre Smallest Lyapunov functions of differential inclusions. 90d:49007
- Bainov, D. D. see Kulev, G. K., 90b:34069
- Basu, Sankar On the multidimensional generalization of robustness of scattering Hurwitz property of complex polynomials. 90g:93072
- Batalova, Z. S. (with Belyakova, G. V.) Domains of existence and stability of steady-state and periodic motions of a parametrically excitable pendulum. (Russian) 90b:34053
- Belyakova, G. V. see Batalova, Z. S., 90b:34053
- Beretta, Edoardo (with Takeuchi, Yasuhiro) Homotopy techniques in stability problems of delay-diffusion Volterra models. 90f:92021
- (with Fergola, Paolo; Tenneriello, Catello) Ultimate boundedness for nonautonomous diffusive Lotka-Volterra patches. 90b:92041
- A homotopy technique for a linear generalization of Volterra models. 90f:92031
- Biragov, V. S. Bifurcations in a two-parameter family of conservative mappings that are close to the Hénon mapping. (Russian) 90b:58113
- Blanchini, Franco (with Pollicastro, Mario) Matrix bidiagonal form. 90g:93022
- Bossel, H. see Trost, N., 90c:92043
- Burton, Theodore Allen (with Casal, A.; Somolinos, A.) Upper and lower bounds for Liapunov functionals. 90f:34117
- Casal, A. see Burton, Theodore Allen; et al., 90f:34117
- Chen, Wen De (with Han, Jing Qing) A new method for solving Riccati equations and Liapunoff equations. 90g:93023
- Chiang, Hsiao-Dong Study of the existence of energy functions for power systems with losses. 90b:94055
- DiPerna, R. J. (with Lions, P.-L.) Ordinary differential equations, transport theory and Sobolev spaces. 90j:34004
- Elaydi, S. (with Peterson, Allan C.) Stability of difference equations. 90m:39014
- Falko, N. S. Application of the method of Lyapunov functions in the problem of Poisson stability. 90i:34082
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- Fergola, Paolo see Beretta, Edoardo; et al., 90b:92041
- Franks, John A variation on the Poincaré-Birkhoff theorem. 90e:58095
- Furta, S. D. The loss of stability of the equilibrium of a flexible inextensible thin rod with a fixed end in a gravity force field. (Russian) 90c:73060
- Furumochi, Tetsuo Uniform asymptotic stability in perturbed differential equations. 90b:34103
- Futak, Ján On boundedness and stability of solutions of nonlinear second order differential systems. 90d:34070
- Garashchenko, F. G. Some problems in the stability and optimization of the dynamics of beams. (Russian) 90j:34065
- Gelig, A. Kh. Stability of sampled-data systems with a negative dominating diagonal. 90c:93064
- Gu, Dao Xiu The limit cycles of a class of cubic systems. (Chinese. English summary) 90f:34057
- Han, Jing Qing see Chen, Wen De, 90g:93023
- Hill, David J. On the equilibria of power systems with nonlinear loads. 90b:94058
- Howard, J. E. Routh revisited. 90j:58071
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- Kalas, J. see Rab, Miloš, 90b:34067
- Kalitin, B. S. Stability in the presence of an invariant surface. (Russian) 90i:58090
- Khasainov, D. Ya. see Zhuikova, A. G., 90a:65169
- Koshlyakov, V. N. On the instability of the vertical rotation of a heavy body. 90i:70011
- Kulev, G. K. (with Bainov, D. D.) Global stability of sets for systems with impulses. 90b:34069
- Kwatny, Harry G. (with Yu, Xiao Ming) Energy analysis of load-induced flutter instability in classical models of electric power networks. 90k:58105
- Lazer, A. C. (with McKenna, P. J.) On the existence of stable periodic solutions of differential equations of Duffing type. 90m:34093
- Len, Jonathan L. (with Rand, Richard H.) Lie transforms applied to a nonlinear parametric excitation problem. 90b:34055
- Letavin, M. I. Characterization of the asymptotic stability of homogeneous potential operators by means of eigenvalues. 90k:34078
- Levi, Mark Stability of the inverted pendulum—a topological explanation. 90c:58093
- Li, Zhi Xiang Application of the Lyapunov method to the study of almost periodic systems. (Chinese) (Not in MR)
- Lions, P.-L. see DiPerna, R. J., 90j:34004
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- Ma, Hong The stability problem for stochastic differential equations on a Hilbert space. (Chinese. English summary) 90g:93086
- Magnitskiĭ, N. A. On the stability of closed time-dependent controllable systems. (Russian. English summary) (Not in MR)
- Maĭkov, K. V. On the construction of stable and stabilizing systems with distributed parameters. 90m:93097
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- Martynuk, A. A. Hierarchical matrix Lyapunov function. 90c:34088
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- Michel, A. N. (with Farrell, J. A.; Porod, W.) Qualitative analysis of neural networks. 90g:92030a
- (with Farrell, J. A.; Porod, W.) Correction to: "Qualitative analysis of neural networks". 90g:92030b
- Molchanov, A. P. (with Pyatnitskii, E. S.) Criteria of asymptotic stability of differential and difference inclusions encountered in control theory. 90g:34014
- Murty, K. N. (with Srinivas, M. A. S.; Prasad, K. R.) Approximate analytical solutions to the three-species ecological system. 90m:92080
- Ohe, Takashi (with Yamamoto, Minoru) On the exponentially asymptotic stability of a perturbed nonlinear system. 90b:34071
- Okuda, Masami An exclusion principle for states of equilibrium in the Lotka-Volterra system. 90g:92072
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- Pyatnitskii, E. S. see Molchanov, A. P., 90g:34014
- Rab, Miloš (with Kalas, J.) Stability of dynamical systems in the plane. 90b:34067
- Rama Mohana Rao, M. (with Sivasundaram, S.) Perturbing Liapunov functions and Lagrange stability in terms of two measures. 90d:34103
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- Rantsevich, V. A. (with Samson, A. M.) Limit cycles of a dynamical system that models the functioning of a laser. (Russian) 90b:34056
- Replado Ramirez, José Antonio The bifurcation equation of a periodic system of ordinary differential equations. (Spanish) 90a:58138
- Saito, Seiji Global behavior of solutions of quasilinear ordinary differential systems. 90g:34097
- Samson, A. M. see Rantsevich, V. A., 90b:34056
- Savchenko, A. Ya. (with Ignat'ev, A. O.) ★ Некоторые задачи устойчивости неавтономных динамических систем. (Russian) [Some problems in the stability of nonautonomous dynamical systems] 90b:34002
- Sirazetdinov, T. K. see Aminov, A. B., 90b:58132
- Sivasundaram, S. see Rama Mohana Rao, M., 90d:34103 and 90b:34080
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- Stubbé, Joachim Linear stability theory of solitary waves arising from Hamiltonian systems with symmetry. 90g:58061
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- Tasso, H. An improved estimate of the "attractive region" and modelling of fluctuation spectra. 90d:58072
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- Thews, Klaus Der Abbildungsgrad von Vektorfeldern zu stabilen Ruhelagen. (English summary) [The degree of mapping of vector fields for stable rest positions] 90b:58140
- Trost, N. (with Bossel, H.) Analysis of a parameter dependent tree growth model with nondifferentiable right hand side. 90c:92043
- Tsinias, J. Generalizations of the instability theorem of Chetaev to nonlinear control systems. 90j:93085
- Walker, John Andrew Pseudodissipative systems. II. Stability of reduced equilibria. 90c:70027
- Wojtkowski, Maciej P. A remark on strong stability of linear Hamiltonian systems. 90f:58054
- Wyderka, Zdzisław On stability and stabilization of linear systems with measures as coefficients. 90c:93075
- Yamamoto, Minoru see Ohe, Takashi, 90b:34071
- Yu, Xiao Ming see Kwatny, Harry G., 90k:58105
- Yumagnolov, M. G. Stability of oscillations with large mean values in dynamical systems. (Russian. Tajiki summary) 90k:34044
- Zadornyi, B. V. Construction of Lyapunov functions for the investigation of the continuability of solutions. (Russian) 90f:34009
- Zampieri, Gaetano On the periodic oscillations of $\dot{x} = g(x)$. 90b:34057
- Zhu, Si Ming Recent developments outside China in the stability theory of ODEs. (Chinese) 90a:34004
- Zhuikova, A. G. (with Khasainov, D. Ya.) A numerical algorithm for constructing an optimal Lyapunov function in problems of absolute stability. (Russian) 90a:65169

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- Deich, V. G. Generalization of the frequency theorem to the case of an unbounded observation operator and its applications to problems of absolute stability. 90k:34059
- Lapachugina, M. I. (with Leonov, G. A.) A frequency criterion for instability in the large of nonlinear dynamical systems. (Russian) 90k:34060
- Leonov, G. A. see Lapachugina, M. I., 90k:34060
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- Akhmetov, M. U. see Samoilenko, A. M.; et al., 90m:34109
- Alymkulov, K. A problem of singular perturbation with a limit cycle in a subsystem with fast time. (Russian) (Not in MR)
- Bainov, D. D. see Simeonov, P. S., 90b:34081
- Chiang, Hsiao-Dong (with Thorp, James S.) Stability regions of nonlinear dynamical systems: a constructive methodology. 90m:34107
- Chow, Shui-Nee (with Lü, Ke Ning) Center unstable manifolds in quasiperiodic and averaging systems. 90d:34113
- Grod, I. N. see Mitropol'skii, Yu. A., 90m:34108
- Kolesov, A. Yu. Instability of duck cycles that arise in the passage of an equilibrium state of a multidimensional relaxed system through a failure manifold. (Russian) (Not in MR)
- Kulik, A. N. Application of methods for the approximation of functions in the theory of the stability of the invariant tori of dynamical systems. (Russian) 90b:34079
- Letavin, M. I. On the domain of asymptotic stability of the invariant set of a dynamical system that does not possess the property of uniform change of distance. 90d:34114
- Lü, Ke Ning see Chow, Shui-Nee, 90d:34113
- Mitropol'skii, Yu. A. (with Grod, I. N.) Some problems of invariant manifolds, and sign-variable Lyapunov functions. (Russian) 90m:34108

- Ospenko, G. S. Conditions for the preservation of an invariant manifold. (Russian) 90c:34095
- Perestyuk, N. A. *see* Samoilenko, A. M.; et al., 90m:34109
- Samoilenko, A. M. (with Perestyuk, N. A.; Akhmetov, M. U.) The comparison method for systems of differential equations with impulse action. (Russian) 90m:34109
- Shpakovich, O. V. On the theory of invariant tori of quasilinear systems of differential equations. (Russian) 90m:34110
- Smoothness with respect to the parameter of an exponentially dichotomous invariant torus of a quasilinear system of differential equations. (Russian) 90k:34061
- Simenov, P. S. (with Bainov, D. D.) Orbital stability of the periodic solutions of autonomous systems with impulse effect. 90k:34081
- Smith, Russell A. Orbitally stable closed trajectories of ordinary differential equations. 90m:34111
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- Tkachenko, V. I. The Green function and conditions for the existence of invariant sets of sampled-data systems. (Russian) 90k:34077
- Wang, Mu Qiu *see* Zhang, Yi¹; et al., 90a:34113
- Zhang, Yi¹ *see* Zhang, Yi¹; Wang, Mu Qiu, 90a:34113
- Zhang, Yi² (with Zhang, Yi¹; Wang, Mu Qiu) The stability and steady-state oscillation of large-scale linear systems with time-varying coefficients under structural perturbations. (Chinese. English summary) 90a:34113

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- Andersson, Åke E. (with Zhang, Wei-Bin) Decision centralization and decentralization in a dynamic economic system. 90k:90034
- Baris, Ya. S. (with Lykova, O. B.) Asymptotic expansions of invariant manifolds. II. 90a:34117
- (with Lykova, O. B.) Integral manifolds and the reduction principle in stability theory. I. (Russian) 90m:34097
- Berretti, Alberto (with Chierchia, Luigi) On the complex analytic structure of the golden invariant curve for the standard map. 90k:58126
- Bogaty, S. A. (with Gutsu, V. I.) On the structure of attracting compacta. (Russian) 90j:58076
- Chierchia, Luigi *see* Berretti, Alberto, 90k:58126
- Cicogna, G. Effects of symmetry-breaking perturbations on the onset of the "Smale-horseshoe" chaos. 90c:58163
- Gao, Wei Xin Globally semistable cubic systems. (Chinese) 90i:58159
- Grod, I. N. On the existence of an invariant manifold for some irregularly perturbed systems. (Russian) 90m:58182
- Guseinov, Kh. G. (with Ushakov, V. N.) Strongly and weakly invariant sets with respect to a differential inclusion. 90k:34021
- Gutsu, V. I. *see* Bogaty, S. A., 90j:58076
- Hainz, J. Mehrfache Verzweigung in einem Räuber-Beute-System mit vier Parametern. [Multiple bifurcation in a predator-prey system with four parameters] 90f:92034
- Huseyin, K. *see* Yu, Pei, 90i:58146
- Irtogov, V. D. Gyroscopic stabilization and bifurcations. (Russian) 90k:70026
- Isaacson, Eli L. (with Marchesin, Dan; Plohr, Bradley J.) Transitional shock waves. (*see* 90i:90003)
- Knobloch, H. W. A method for construction of invariant manifolds. (Russian summary) 90a:34087
- Kotas, Janina Global C^* structural stability of vector fields on open surfaces with finite genus. 90k:58102
- Leonov, G. A. Asymptotic behavior of the solutions of the Lorenz system. 90a:58104
- Lykova, O. B. *see* Baris, Ya. S., 90a:34117 and 90m:34097
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- Moreva, M. B. Stability of attracting sets in the metric R_0 with respect to C^0 -perturbations. 90k:58136
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- Neshcheret, V. I. Problems in the stabilization of a program manifold. (Russian) 90c:93023
- Ordynskaya, Z. P. On the problem of the smoothness of the invariant torus of a perturbed system. (Russian) 90k:58190
- Ospenko, G. S. A study of uniformly separated periodic systems. (Russian) 90c:34069
- Examples of perturbations of invariant manifolds. 90k:58191
- Peixoto, Maria Lúcia Alvarenga The closing lemma for generalized recurrence in the plane. 90k:58137
- Petkovski, Djordjija B. New time domain stability robustness measures for linear systems. (Russian summary) 90f:34083
- Pilyugin, S. Yu. ★ Введение в грубые системы дифференциальных уравнений. (Russian) [Introduction to structurally stable systems of differential equations] 90f:58106
- Plohr, Bradley J. *see* Isaacson, Eli L.; et al., (90i:90003)
- Rantsevich, V. A. (with Samson, A. M.) Limit cycles of a dynamical system that models the functioning of a laser. (Russian) 90c:34056
- Rantsev, V. P. On the bifurcation of an invariant torus $T^m \rightarrow T^{m+1}$. (Russian) 90i:58143
- Samson, A. M. *see* Rantsevich, V. A., 90c:34056
- Söderbacka, Gunnar On the structure of the boundary of an invariant set of a system of differential equations with nontransversal intersection of stable and unstable manifolds. IX. 90d:58085
- Ushakov, V. N. *see* Guseinov, Kh. G., 90k:34021
- Vyshenskaya, O. V. On the existence of an invariant torus of a class of discontinuous dynamical systems. (Russian) 90i:58168
- Yoshino, Ryuzo On the possible and stable psychophysical laws. 90i:92051
- Yu, Pei (with Huseyin, K.) Invariant tori arising at a general critical point of codimension three. 90i:58146
- Yu, Shu Xiang Trajectories joining critical points. (Chinese) 90i:58169
- Zhang, Wei-Bin *see* Andersson, Åke E., 90k:90034

34D40 Ultimate boundedness

- Ivkhin, E. V. Optimization of qualitative estimates for quasilinear systems. (Russian)

- 90a:34114
- Rama Mohana Rao, M. (with Sivasundaram, S.) Perturbing Liapunov functions and ultimate boundedness in terms of two measures. 90k:34080
- Sivasundaram, S. *see* Rama Mohana Rao, M., 90k:34080

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- Andres, Ján Structure of the phase-space for the third-order forced nonlinear differential equations belonging to the generalized class D' in the sense of Levinson. 90d:34068
- Beretta, Edoardo (with Fergola, Paolo; Tenneriello, Catello) Ultimate boundedness for nonautonomous diffusive Lotka-Volterra patches. 90b:92041
- Bitsoris, Georges On the positive invariance of polyhedral sets for discrete-time systems. 90d:39004
- Chernetskaya, L. N. *see* Martynyuk, A. A., 90g:34055
- Falko, N. S. Application of the method of Lyapunov functions in the problem of Poisson stability. 90k:34082
- Fergola, Paolo (with Tenneriello, Catello) Lotka-Volterra models: partial stability and partial ultimate boundedness. 90g:92060
- *see also* Beretta, Edoardo; et al., 90b:92041
- Karimzhanov, A. *see* Martynyuk, A. A., 90a:34097
- Kravaris, Costas (with Palanki, Srinivas) A Lyapunov approach for robust nonlinear state feedback synthesis. 90i:93035
- Liu, Nan Gea The limit cycles of a predator-prey system with Holling type I functional response. (Chinese) 90c:92069
- Martynyuk, A. A. (with Karimzhanov, A.) Limiting equations and stability of nonstationary motions. 90a:34097
- (with Chernetskaya, L. N.) An estimate of unsteady motions on time-dependent sets. 90g:34055
- Palanki, Srinivas *see* Kravaris, Costas, 90i:93035
- Taniguchi, Takeshi Boundedness theorems by two Liapunov functions. 90k:34042
- Tenneriello, Catello *see* Beretta, Edoardo; et al., 90b:92041 and Fergola, Paolo, 90g:92060
- Wolkowicz, Gall S. K. Successful invasion of a food web in a chemostat. 90f:92027

34D99 None of the above, but in this section

- Bainov, D. D. *see* Zhabreiko, P. P.; et al., 90f:34090 and Kulev, G. K., 90i:34083
- Borisenko, S. D. Practical stability of solutions of sampled-data systems. (Russian) 90k:34078
- Falko, N. S. Application of the method of Lyapunov functions in the problem of Poisson stability. 90k:34082
- Garaschenko, F. G. (with Pantilenko, L. A.) Solution of sensitivity theory problems by the practical stability method. (Not in MR)
- Ignat'ev, A. O. Stability of almost periodic systems with respect to some of the variables. (Russian) (Not in MR)
- Klee, Victor Sign-patterns and stability. 90k:34081
- Kostadinov, S. I. *see* Zhabreiko, P. P.; et al., 90f:34090
- Kulev, G. K. (with Bainov, D. D.) Investigation of the practical stability of the solutions of systems with impulse effect by the help of the comparison method. (Russian and Bulgarian summaries) 90i:34083
- Massarotti, Paolo Limit equations in the problem of stability for nonautonomous ordinary differential equations. (Italian. English summary) 90g:34056
- Matvichuk, K. S. Conditions for the technical stability of nonlinear evolution systems. (Russian) 90a:34115
- Maybee, John S. Qualitatively stable matrices and convergent matrices. 90k:34082
- Pantilenko, L. A. *see* Garaschenko, F. G., (Not in MR)
- Redheffer, Ray (with Zhou, Zhi Ming) Sign semistability and global asymptotic stability. 90k:34062
- Skachkov, B. N. Conditions for the dissipativity of an n th order equation. (Russian) 90m:34112
- Zhabreiko, P. P. (with Bainov, D. D.; Kostadinov, S. I.) On the stability of a class of linear homogeneous differential equations with impulse effect in a Banach space. 90f:34090
- Zhao, Jia Xiang Limiting equations and extreme stability. (Chinese. English summary) 90m:34113
- Zhou, Zhi Ming *see* Redheffer, Ray, 90k:34062

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- Andres, Ján Symmetry in a certain simply perturbed Hamiltonian system. (Russian and Uzbek summaries) (Not in MR)
- Bainov, D. D. *see* Milev, N. V., 90c:34012
- Cao, Qing Jie *see* Xiong, Kai Qi, 90i:93103
- Djafaris, T. E. (with Hollot, C. V.) Parameter partitioning via shaping conditions for the stability of families of polynomials. 90k:93059
- Gao, Wei Bing *see* Shi, Zhi Cheng, 90j:15030
- Hollot, C. V. *see* Djafaris, T. E., 90k:93059
- Leonov, G. A. (with Morozov, A. V.) Global stability of forced motions of a fluid inside an ellipsoid. 90a:76096
- Lu, Pei Shan *see* Peng, Xiao Lin, (Not in MR)
- Martynyuk, A. A. Hierarchical matrix Lyapunov function. 90k:34088
- Practical stability of hybrid systems. 90k:34074
- Milev, N. V. (with Bainov, D. D.) Dichotomies for linear periodic differential equations with impulses. 90c:34012
- Morozov, A. V. *see* Leonov, G. A., 90a:76096
- Peng, Xiao Lin (with Lu, Pei Shan) Qualitative analysis of a dynamic cutting process taking into account nonlinear structural stiffness of the machine tool. (Chinese. English summary) (Not in MR)
- Pilyugin, S. Yu. A measure of deviation for attracting sets. (Russian) 90c:58079
- Shi, Zhi Cheng (with Gao, Wei Bing) Stability of interval parameter matrices. 90j:15030
- Troch, I. Preserving stability properties under sampling. 90b:39008
- Xiong, Kai Qi (with Cao, Qing Jie) On the partial stability of linear system and control system. 90i:93103

Zhu, Si Ming Recent developments outside China in the stability theory of ODEs. (Chinese) 90a:34004

34Exx Asymptotic theory

34E05 Asymptotic expansions

- Al-Hammadi, A. S. A. Asymptotic theory for third-order differential equations. 90b:34080
- Alikulov, T. A. (with Meliev, T. K.) Asymptotic decomposition of a system of second-order linear differential equations into first-order systems. (Russian) 90m:34114
- Ayanwa, Donatus Uzodiema Uniform asymptotic solutions of second-order linear ordinary differential equations with singular points. I. Formal theory. 90c:34055
- Uniform asymptotic solutions of second-order linear ordinary differential equations with singular points. II. Some expansions. 90c:34056
 - Uniform asymptotic solutions of boundary and eigenvalue problems for a second-order ordinary differential equation with singular and turning points. 90c:34057
- Aripov, M. M. (with Eshmatov, D. Sh.) On WKB-solutions of a generalized equation of Emden-Fowler type. (Russian) 90c:34096
- (with Eshmatov, D. Sh.) Asymptotic properties of solutions of a generalized equation of Emden-Fowler type. 90j:34079
- Arkhipov, V. P. Asymptotic representations of solutions of degenerate second-order differential equations. (Russian) 90c:34097
- Astaburnaga, M. A. (with Cortés, Víctor H.; Fernández, Claudio A.) Nonlinear perturbation in classical scattering. (Spanish summary) (see 90d:00044)
- Bainov, D. D. (with Kostadinov, S. I.) Asymptotic behaviour of the solutions of equations with impulse effect in a Banach space. 90a:34116
- Baris, Ya. S. (with Lykova, O. B.) Asymptotic expansions of invariant manifolds. II. 90c:34117
- (with Lykova, O. B.) Application of approximate integral manifolds in stability theory. (Russian) 90m:34115
- Battelli, Flaviano (with Lazzari, Claudio) Asymptotic expansions obtained by a center manifold theorem. (Italian summary) 90b:34081
- Belokopytov, S. V. (with Dmitriev, M. G.) Solution of classical optimal control problems with a boundary layer. 90b:34083
- Berry, Michael Victor Uniform asymptotic smoothing of Stokes's discontinuities. 90b:34084
- Bozhko, V. O. (with Fedorenko, L. G.) Asymptotic behavior of periodic solutions of a system of first-order linear differential equations with a small parameter in the resonance case. (Russian) (see 90k:00017)
- (with Zhuravlev, V. P.) Periodic solutions of a linear nonhomogeneous system of first-order differential equations with a small parameter. (Ukrainian. Russian summary) 90d:34115
- Byatt-Smith, J. G. B. The asymptotic solution of a connection problem of a second order ordinary differential equation. 90b:34082
- Cortés, Víctor H. see Astaburnaga, M. A.; et al., (90d:00044)
- Dmitriev, M. G. see Belokopytov, S. V., 90b:34083
- Drăgan, Vasile (with Halanay, A.) Asymptotic expansions for coupled difference and differential-difference equations with small delays. (Russian summary) 90b:34083
- Drik, N. G. see Evtukhov, V. M., 90b:34085
- Eshmatov, D. Sh. see Aripov, M. M., 90c:34096 and 90j:34079
- Evtukhov, V. M. (with Drik, N. G.) Asymptotic representations of solutions of a class of second-order nonlinear differential equations. (Russian. English and Georgian summaries) 90b:34085
- Fedorenko, L. G. see Bozhko, V. O., (90k:00017)
- Fernández, Claudio A. see Astaburnaga, M. A.; et al., (90d:00044)
- Felkova, Jana Asymptotic behaviour of the solutions of a certain type of the third order differential equations. (Russian summary) 90j:34063
- Fodor, János Asymptotic behavior of solutions of linear systems with small perturbations. (Russian) 90j:34080
- Gavrilov, L. N. On the nonintegrability of a class of differential equations which are not of Painlevé type. 90j:34057
- Halanay, A. see Drăgan, Vasile, 90b:34083
- Howard, H. C. (with Marić, V.) An extension of the Liouville-Green approximation. 90i:34084
- Kaper, Hans G. (with Krall, Allan M.) $M(\lambda)$ -computation for singular differential systems. 90b:34086
- Kashkinbaev, O. Asymptotic behavior of the solutions of a modified Mathieu equation. (Russian) 90a:34118
- Katranov, A. G. On the asymptotic behavior of real solutions of a nonlinear differential equation. (Russian) (see 90a:00009)
- Kayumov, T. Asymptotic representation of positive solutions of an equation of Emden-Fowler type. (Russian) 90b:34084
- Kitaev, A. V. Asymptotic description of solutions of the fourth Painlevé equation on analogues of Stokes's rays. (Russian. English summary) 90c:34058
- Kostadinov, S. I. see Bainov, D. D., 90a:34116
- Krall, Allan M. see Kaper, Hans G., 90b:34086
- Kudryavtsev, D. L. Asymptotic behavior of solutions of a second-order linear differential equation with regular singular points. 90c:34098
- Kur'ma, N. G. Asymptotic splitting of systems of second-order differential equations with slowly changing and oscillating coefficients. 90c:34059
- Kuznetsova, N. A. Asymptotic representations and estimates for the solutions of a second-order degenerate equation with a large parameter. (Russian) 90c:34099
- Lazzari, Claudio see Battelli, Flaviano, 90b:34081
- Li, Yong* see Zhou, Qin De, 90b:34088
- Lin, Zong Chi Asymptotic expression of solution of Cauchy's problem for a second order vector equation when the limit equation has singularity. 90c:34060
- (with Ni, Shou Ping) Estimation of solutions to second-order vector semilinear singular perturbation problems with perturbations in boundary conditions. (Chinese. English summary) 90m:34116
- Lykova, O. B. see Baris, Ya. S., 90a:34117 and 90m:34115
- Makarenko, V. Ya. (with Sushko, V. G.) Asymptotic behavior, with respect to a small parameter, of the solution of a stiff problem for a second-order ordinary differential equation. 90m:34117
- Marić, V. (with Radasin, Z.) Asymptotic behavior of solutions of the equation $y'' = f(x)\phi(\psi(y))$. (Serbo-Croatian summary) 90a:34119
- see also Howard, H. C., 90i:34084
- Medina, R. (with Pinto, Manuel) On the asymptotic behavior of solutions of certain second order nonlinear differential equations. 90c:34100
- Meliev, T. K. Asymptotic solutions of a system of third-order linear differential equations that contain a parameter. (Russian) 90f:34091
- see also Alikulov, T. A., 90m:34114
- Motylev, L. Yu. An asymptotic method for ordinary differential equations with an infinite-order turning point. 90f:34092
- Ni, Shou Ping Asymptotic expansion of solutions to a class of third-order nonlinear singularly perturbed boundary value problems. (Chinese. English summary) 90m:34118
- see also Lin, Zong Chi, 90m:34116
- Paris, Richard B. see Wood, Alastair D., 90b:34086
- Pashkovskaya, N. D. (with Sukhomlin, V. Z.) The asymptotic behavior of solutions of a quasilinear equation with variable coefficients. (Russian) 90c:34101
- Pinto, Manuel see Medina, R., 90c:34100
- Puttaswamy, T. K. A connection problem for a certain n th order homogeneous differential equation. (see 90j:00016)
- Radasin, Z. see Marić, V., 90a:34119
- Rustamov, N. A. The scattering matrix and adiabatic invariants of a system of linear oscillators with a turning point. (Russian. English and Azerbaijani summaries) 90a:34120
- Schuur, J. D. Applying a fixed point technique to asymptotic behavior and boundary value problems in ordinary differential equations. (Italian summary) (Not in MR)
- Shkil', N. I. (with Zavizion, G. V.) Asymptotic representation of solutions of systems of linear differential equations with a small parameter multiplying the derivative in the presence of a turning point. (Russian. English summary) (Not in MR)
- Sukhomlin, V. Z. see Pashkovskaya, N. D., 90c:34101
- Sushko, V. G. see Makarenko, V. Ya., 90m:34117
- Tanimoto, Shinji Asymptotic behavior of functions and solutions of some nonlinear differential equations. 90b:34085
- Voznyuk, A. V. Construction of asymptotic formulas for Legendre functions of the first and second kind. (Russian) 90b:34087
- Higher asymptotic expansions of solutions of the Weber equation in transition domains. (Russian) 90m:34119
- Wood, Alastair D. (with Paris, Richard B.) Asymptotics of a model equation for optical tunnelling. 90b:34086
- Zavizion, G. V. see Shkil', N. I., (Not in MR)
- Zhou, Qin De (with Li, Yong*) The asymptotic expansions of singularly perturbed boundary value problems. 90b:34088
- Zhukova, G. S. ★ Асимптотическое интегрирование обыкновенных линейных дифференциальных уравнений. (Russian) [Asymptotic integration of ordinary linear differential equations] 90m:34120
- An analogue of the Newton diagram method for a class of singularly perturbed differential equations. I. 90a:34121
- Zhuravlev, V. P. see Bozhko, V. O., 90d:34115

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- Abdurvaliev, A. O. (with Rozov, N. Kh.; Sushko, V. G.) Asymptotic representations of solutions of some singularly perturbed boundary value problems. 90d:34117
- An, Gang (with Zhou, Qin De) Singular perturbation of boundary value problems for differential-difference equations. 90d:34129
- Bakaleinikov, L. A. (with Polovko, Yu. A.) Asymptotic behavior of nearly discontinuous solutions of singularly perturbed autonomous systems of ordinary differential equations in a neighborhood of a bifurcation point. (Russian) 90f:58154
- Baxley, John V. A singular nonlinear boundary value problem: membrane response of a spherical cap. 90a:34041
- Bertrand, P. Asymptotic expansion for the optimal cost of an ill-posed problem with singular perturbations. 90b:93052
- Chu, Xiao-Lin (with Velarde, Manuel G.) Nonlinear transverse oscillatory motions at the open surface of a liquid layer subjected to the Marangoni effect. 90c:76069
- Das, Pitambar see Parhi, N., 90m:34079
- Fodchuk, V. I. (with Yakimov, I. V.) Asymptotic behavior of solutions of a singularly perturbed system of differential equations with delay. 90g:34077
- Frenzen, C. L. (with Maini, P. K.) Enzyme kinetics for a two-step enzymic reaction with comparable initial enzyme-substrate ratios. 90g:92017
- Gatillo, V. V. (with Patudin, V. M.; Sagalakov, A. M.) Thirring instability and bifurcations of a cylindrical current layer with finite ion viscosity. (Russian) 90d:76027
- Giorgilli, Antonio Effective stability in Hamiltonian systems in the light of Nekhoroshev's theorem. 90m:58069
- Hanggi, Peter (with Jung, Peter; Marchesoni, F.) Escape driven by strongly correlated noise. 90c:82017
- Howes, F. A. (with Shao, Sai Lai) Asymptotic analysis of model problems for a coupled system. 90b:34030
- Pin, A. M. ★ Согласование асимптотических разложений решений краевых задач. (Russian) [Matching of asymptotic expansions of solutions of boundary value problems] 90i:35062
- Iwano, Masahiro On the lateral boundaries of a maximal domain associated with bounded solutions. 90c:34059
- Joshi, Nalini (with Kruskal, Martin D.) An asymptotic approach to the connection problem for the first and the second Painlevé equations. 90d:34016
- Jung, Peter see Hanggi, Peter; et al., 90c:82017
- Kadaiabao, M. K. (with Reddy, Y. N.) Asymptotic and numerical analysis of singular perturbation problems: a survey. 90c:34001
- Kapeev, A. A. Asymptotic formulas for Painlevé functions of the second kind. 90d:34017
- Karpushkin, V. N. Uniform estimates for some oscillatory integrals. 90i:58014

- Klimashevskaya, I. N. *see* Kondratyeva, S. G.; et al. 90b:34008
- Kolesov, A. Yu. Instability of duck cycles that arise in the passage of an equilibrium state of a multidimensional relaxed system through a failure manifold. (Russian) (Not in MR)
- Kondratyeva, S. G. (with Klimashevskaya, I. N.; Shilo, T. I.) Existence and construction of polar solutions of an autonomous system of two differential equations. (Russian) 90b:34008
- Kruskal, Martin D. *see* Joshi, Nalini. 90a:34016
- Kuznetsova, N. A. Asymptotic representations of solutions of a second-order degenerate differential equation. (Russian) (see 90a:00007)
- Latipov, Kh. R. (with Nosirov, F. U.) ★ О влиянии запаздывания на нелинейные системы. (Russian) [The effect of delay on nonlinear systems] 90f:34074
- Li, Li¹ *see* Xu, Zhen Yuan². 90f:58137
- Li, Yong² (with Zhou, Qin De) Asymptotic expansions of solutions to second-order quasilinear singularly perturbed equations with turning points. (Chinese. English summary) 90a:34067
- Lin, Su Rong *see* Lin, Zong Chi. 90a:34050 and 90a:34039
- Lin, Xiao-Biao Shadowing lemma and singularly perturbed boundary value problems. 90a:34126
- Lin, Zong Chi (with Lin, Su Rong) Singular perturbation of boundary value problem for a vector fourth order nonlinear differential equation. 90a:34039
- (with Lin, Su Rong) Singular perturbation of nonlinear Robin boundary value problem with boundary perturbation. 90a:34050
- Liu, Tian Yi (with Wan, Shi Dong) Approximation solutions in the biomathematical model of aneurysm of circle of Willis. (Chinese. English summary) 90f:92008
- Maini, P. K. *see* Frenzen, C. L. 90g:92017
- Marchesoni, F. *see* Hanggi, Peter; et al. 90a:82017
- Maric, V. Differential and algebraic equations in Hardy fields. 90m:12012
- Markowich, Peter A. (with Ringhofer, C. A.; Schmeiser, Christian) An asymptotic analysis of one-dimensional models of semiconductor devices. 90b:34024
- (with Schmeiser, Christian) Uniform asymptotic representation of solutions of the basic semiconductor-device equations. 90a:94049
- Mertens, R. *see* Ottoy, J. P. 90c:70022a and 90c:70022b
- Miao, Shu Mei Singularly perturbed boundary value problems for a differential-difference equation with a small time delay. (Chinese. English summary) 90d:34130
- A boundary value problem for a singularly perturbed third-order differential equation. (Chinese. English summary) 90a:34030
- Ni, Ming Kang A boundary value problem for a critical singular perturbation. (Chinese. English summary) 90m:34049
- Nosirov, F. U. *see* Latipov, Kh. R. 90f:34074
- Ohriska, Ján Oscillatory and asymptotic properties of third and fourth order linear differential equations. 90a:34034
- Ottoy, J. P. (with Mertens, R.) About the calculation of the successive terms of the adiabatic invariant for slowly-time varying oscillatory systems. 90c:70022a
- (with Mertens, R.) On the adiabatic and exact invariants of some special Hamiltonians. 90c:70022b
- Parhi, N. (with Das, Pitambar) Asymptotic property of solutions of a class of third order differential equations. 90m:34079
- Patudin, V. M. *see* Gatilov, V. V.; et al. 90d:70027
- Pliss, P. V. Asymptotic expansion at infinity of the discontinuity curve of the controllability set of the van der Pol equation with control. 90m:49029
- Polovko, Yu. A. *see* Bakaleinikov, L. A. 90f:58154
- Reddy, Y. N. *see* Kadalbajoo, M. K. 90a:34001
- Ringhofer, C. A. *see* Markowich, Peter A.; et al. 90a:34024
- Ruov, N. Kh. *see* Abdurvaliev, A. O.; et al. 90d:34117
- Sagalakov, A. M. *see* Gatilov, V. V.; et al. 90d:70027
- Schmeiser, Christian *see* Markowich, Peter A.; et al. 90a:34024 and 90a:94049
- Selgrade, James F. Dynamical behavior of a competitive model with genetic variation. 90a:92065
- Shao, Sai Lai *see* Howes, F. A. 90b:34030
- Shilo, T. I. *see* Kondratyeva, S. G.; et al. 90b:34008
- Shpakovich, O. V. On the theory of invariant tori of quasilinear systems of differential equations. (Russian) 90m:34110
- Singh, Brij Bhan *see* Singh, Janardan. (Not in MR)
- Singh, Janardan (with Singh, Brij Bhan) Asymptotic behaviours of hydromagnetic boundary layer flows past a semi-infinite flat plate. (Not in MR)
- Štarnas, Arūnas Two-scale expansions in the theory of multifrequency oscillations. 90g:34039
- Stepanyan, A. Z. Asymptotic expansion of eigenvalues and eigenfunctions of a problem for a fourth-order ordinary differential equation with rapidly oscillating coefficients. (Russian. Armenian summary) 90a:34026
- Strygina, V. V. Asymptotic integration of the equations of motion of mechanical systems under the action of rapidly oscillating forces. (Russian) 90g:70024
- Sushko, V. G. *see* Abdurvaliev, A. O.; et al. 90d:34117
- Velarde, Manuel G. *see* Chu, Xiao-Lin. 90c:76069
- Wan, Shi Dong *see* Liu, Tian Yi. 90f:92008
- Wang, Wan-xian Higher order terms of asymptotic expansions for spheroidal eigenvalues. 90h:33017
- Xie, Rui Feng Pointwise estimates for finite-element approximations to Green functions on a concave polygonal domain, and finite-element extrapolation. (Chinese. English summary) 90f:65211
- Xu, Jun Tao Singular perturbation solution of boundary value problem for a second order differential-difference equation. 90a:34151
- Xu, Zhen Yuan² (with Li, Li¹) Meñnikov function and Poincaré map. 90f:58137
- Yakimov, I. V. *see* Fodchuk, V. I. 90g:34077
- Yatsenko, T. P. Asymptotic investigation of a linear-quadratic control problem. 90d:93039
- Zhou, Qin De *see* An, Gang. 90d:34129 and Li, Yong². 90a:34067
- Zhukova, G. S. Approximate construction of a general solution with prescribed accuracy. (Russian) 90a:34029

34E10 Perturbations

- Bender, Carl M. (with Milton, Kimball A.; Pinsky, Stephen S.; Simmons, L. M., Jr.) A new perturbative approach to nonlinear problems. 90b:34085
- Diblík, Josef One theorem on asymptotic behaviour of solutions of a certain system of quasilinear differential equations not solved with respect to derivatives. (German summary) 90f:34093
- Kulik, V. L. Perturbation of weakly regular linear systems of differential equations of block-triangular form. (Russian) 90a:34058
- Makarov, E. K. The measure of an irregularity set of a linear system with a parameter multiplying the derivative. (Russian. English summary) 90a:34102
- Milton, Kimball A. *see* Bender, Carl M.; et al. 90b:34085
- Pinsky, Stephen S. *see* Bender, Carl M.; et al. 90b:34085
- Simmons, L. M., Jr. *see* Bender, Carl M.; et al. 90b:34085
- Tan, Jun Yu The study of applicability for PLK method. 90g:34059
- Items with secondary classifications in 34E10
- Albanese, C. Scalar particles in a narrow-band periodic potential. 90b:81214
- Cecchi, Mariella (with Marini, Mauro; Villari, Gabriele) On the monotonicity property for a certain class of second order differential equations. 90b:34013
- Delf, A. ★ Sensitivity analysis in linear systems. 90f:34002
- Domti, Isaac Kwame Asymptotically almost periodic solutions of linear systems of differential equations with generalized perturbations. (Russian) 90b:34063
- Flashner, H. *see* Guttalu, R. S. 90a:34065
- Furumochi, Tetsuo Uniform asymptotic stability in perturbed differential equations. 90a:34103
- Guttalu, R. S. (with Flashner, H.) Periodic solutions of nonlinear autonomous systems by approximate point mappings. 90b:34065
- Iooss, G. (with Joseph, Daniel D.) ★ Elementary stability and bifurcation theory. 90a:34001
- Jing, Zhu Jun (with Wang, Peng Yuan) Chaotic behaviour in the Josephson equations with periodic force. 90d:58097
- Joseph, Daniel D. *see* Iooss, G. 90a:34001
- Lyubishkin, V. A. *see* Sadovnichii, V. A.¹. 90c:47021
- Marini, Mauro *see* Cecchi, Mariella; et al. 90b:34013
- Sadovnichii, V. A.¹ (with Lyubishkin, V. A.) Trace formulas and perturbation theory. 90c:47021
- Verhulst, F. A note on higher order averaging. 90d:34086
- Villari, Gabriele *see* Cecchi, Mariella; et al. 90b:34013
- Wang, Peng Yuan *see* Jing, Zhu Jun. 90d:58097

34E15 Singular perturbations, general theory

- Abd El-Rady, A. S. (with Saady, M. R.) A priori bounds and existence theorems of a solution to a singularly perturbed quasilinear Robin problem. (Arabic summary) 90b:34087
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34Kxx Functional-differential and differential-difference equations, with or without deviating (or retarded) arguments

Items with secondary classifications in 34Kxx

(Azbelev, N. V.) *see* Functional-differential equations, 90b:34001

Items listed otherwise than by author

Functional-differential equations ★ Функционально-дифференциальные уравнения. (Russian) [Functional-differential equations] 90b:34001

34K05 General theory

Abdullaev, A. R. (with Burmistrova, A. B.) Reducibility and properties of solutions of linear functional-differential equations. (Russian) (see 90k:00017)

Aleidarov, S. M. Existence and uniqueness of solutions of power growth of an equation with deviating argument. (Russian) 90c:34119

Ariño, O. (with Györi, I.) Asymptotic integration of delay differential systems. 90e:34120

Balachandran, Krishnan An existence theorem for nonlinear delay differential equations. 90c:34121

Beklaryan, L. A. On the reducibility of a differential equation with deviating argument to an equation with constant commensurable deviations. 90a:34143

Berezanskii, L. M. (with Larionov, A. S.) Positivity of the Cauchy matrix of a linear functional-differential equation. 90a:34144

Brandi, Primo (with Ceppitelli, Rita) Existence, uniqueness, and continuous dependence for hereditary differential equations. 90j:34092

Brokate, Martin (with Colonius, F.) Linearizing equations with state-dependent delays. 90b:34102

Brusch, M. On certain functional equations connected with integrable many body dynamical systems. (see 90k:00029)

Burmistrova, A. B. *see* Abdullaev, A. R., (90k:00017)

Burns, John A. (with Herdman, Terry L.; Turi, Janos) State-space formulation for functional-differential equations of neutral-type. 90j:34093

Caristi, Gabriella Multiplicity and approximation of periodic solutions of retarded second order ordinary differential equations of Duffing type. (Italian summary) 90j:34094

Ceppitelli, Rita *see* Brandi, Primo, 90j:34092

Cherepennikov, V. B. Approximate integration of a class of functional-differential equations. (Russian) 90d:34126

Chukwa, E. N. Global behaviour of retarded functional-differential equations. (see 90j:00016)

— (with Simpson, Henry C.) Perturbations of nonlinear systems of neutral type. 90k:34082

Colonius, F. (with Manitius, Andrzej; Salamon, Dietmar) Structure theory and duality for time varying retarded functional-differential equations. 90c:34122

— *see also* Brokate, Martin, 90b:34102

Corduneanu, C. Some global problems for Volterra functional-differential equations. 90h:34103

Derfel, G. A. A probabilistic method for studying a class of functional-differential equations. (Russian) 90j:34095

Domoshnitskii, A. I. Conditions for the applicability of Chaplygin's theorem for systems of linear functional-differential equations. (Russian) (see 90k:00017)

Efendiev, A. R. Properties of a nonlinear system of differential equations. (Russian) (see 90a:00004)

Foltynska, Izabela Functional integrability of solutions to the system of n nonlinear differential equations with deviating argument. 90i:34098

Galimova, A. F. *see* Gelig, A. Kh., 90h:34104

Gelig, A. Kh. (with Galimova, A. F.) Properties of solutions of integro-differential equations that describe impulse systems of phase synchronization. 90h:34104

Germanovich, O. P. (with Ivashechkin, G. M.) Minimality of a system of Floquet solutions of linear periodic equations of neutral type. (Russian) (see 90a:00009)

Gould, H. W. (with Kerr, W. Y.) Characterization of polynomial systems satisfying generalized convolution differential-difference equations. 90f:34104

Györi, I. Two approximation techniques for functional-differential equations. 90a:34145

— Interconnection between ordinary and delay differential equations. (see 90d:93005)

- (with Stavroulakis, I. P.) Positive solutions of functional-differential equations. (Italian summary) 90c:34068
- see also Arino, O., 90c:34120
- Haddock, J. R. (with Kristin, T.; Terjeki, J.) Comparison theorems and convergence properties for functional-differential equations with infinite delay. 90g:34068
- Herdman, Terry L. see Burns, John A.; et al., 90j:34093
- Huang, Qing Guang see You, Bing Li, 90h:34108
- Ivanovskii, G. M. see Germanovich, O. P., (90a:00009)
- Joshi, S. R. see Shendge, G. R., 90h:34106
- Kappel, F. Spline approximation for autonomous nonlinear functional-differential equations. 90a:34146
- Kashchenko, S. A. Application of the normalization method to the study of the dynamics of a differential-difference equation with a small factor multiplying the derivative. (Russian) 90c:34099
- Kerr, W. Y. see Gould, H. W., 90c:34104
- Khasainov, D. Ya. (with Yun'kova, E. A.) On the closeness of solutions of linear systems with delay and systems without delay that correspond to them. (Russian) 90h:34083
- Kir'yanen, A. I. see Shalyapina, O. V., 90d:34128
- Konyukhova, N. B. ★ Сингулярные задачи Коши для систем обыкновенных дифференциальных и функционально-дифференциальных уравнений. (Russian) [Singular Cauchy problems for systems of ordinary differential and functional-differential equations] 90c:34123
- Kristin, T. A note on the convergence of the solutions of a linear functional-differential equation. (Not in MR)
- see also Haddock, J. R.; et al., 90g:34068
- Kurbatov, V. G. Functional-differential equations with switchings. (Russian) 90c:34124
- Ladas, G. (with Partheniadis, E. C.; Schinas, J.) Existence theorems for second order differential equations with piecewise constant argument. (see 90f:00003)
- Larionov, A. S. Conditions for the solvability of some problems for a quasilinear equation of neutral type. (Russian) 90c:34125
- see also Berezanskiĭ, L. M., 90a:34144
- Li, Yong* see Zhou, Qin De, 90j:34100
- Lin, Yi Zhong A variation-of-constants formula for nonautonomous functional-differential equations of advanced type and its application. (Chinese. English summary) 90h:34105
- The semigroup of solutions and a variation-of-constants formula for a class of advanced equations. (Chinese. English summary) 90m:34131
- Litsyna, E. M. The Cauchy matrix of an infinite system of functional-differential equations. (Russian) 90g:34069
- Mantlins, Andrzej see Colonius, F.; et al., 90c:34122
- McNabb, Alex (with Weir, Graham) Comparison theorems for causal functional-differential equations. 90c:34126
- Metelskii, A. V. Invertible systems with delay. (Russian. English summary) (Not in MR)
- Mironov, N. P. Solutions of a second-order differential equation with delay. (Russian) (see 90c:00001)
- Murakami, Satoru (with Naito, Toshiki) Some properties of phase space for functional-differential equations with infinite delay. 90j:34096
- (with Naito, Toshiki) Fading memory spaces and stability properties for functional-differential equations with infinite delay. 90g:34070
- Muregan, Viorica Some problems and results for the equation $u'(t) = f(t, u(t), u(\lambda t))$. (Romanian summary) 90d:34127
- Existence and uniqueness theorems for the equations of type $y'(x) = f(x, y(x), y(\lambda x))$. 90a:34147
- The existence of solution of some functional-differential equations. 90a:34148
- Muravrov, A. N. Analytic solutions of a system of nonlinear autonomous differential equations with deviating arguments. (Russian) 90j:34097
- Naito, Toshiki see Murakami, Satoru, 90g:34070 and 90j:34096
- Nerkin, S. B. The space of two-sided solutions with exponential growth as $t \rightarrow -\infty$ of a linear system with an asymptotically constant matrix and delay. (Russian) 90c:34127
- Nosirov, F. U. On the reducibility of equations with delay to "quasilinear" coordinates. (Not in MR)
- Partheniadis, E. C. see Ladas, G.; et al., (90f:00003)
- Radičević, V. I. Analytic solution of a linear functional-differential equation with linear deviation of the argument. 90c:34128
- Rogers, Joel C. W. Existence, uniqueness, and construction of the solution of a system of ordinary functional-differential equations, with application to the design of perfectly focusing symmetric lenses. 90j:34098
- Ras, Isan A. Maximum principles for some nonlinear differential equations with deviating arguments. 90c:34069
- Salamon, Dietmar see Colonius, F.; et al., 90c:34122
- Schinas, J. see Ladas, G.; et al., (90f:00003)
- Shalyapina, O. V. (with Kir'yanen, A. I.) The Cauchy matrix for systems with delay. 90d:34128
- Shendge, G. R. (with Joshi, S. R.) On functional integral inequalities. 90h:34106
- Simpson, Henry C. see Chukwu, E. N., 90h:34082
- Slyusarchuk, V. E. Necessary and sufficient conditions for the invertibility of uniformly c -continuous functional-differential operators. 90c:34129
- Sorokin, S. N. A two-sided estimate for solutions of a differential equation of neutral type. (Russian) (see 90d:34003)
- Stavroulakis, I. P. see Györi, I., 90c:34068
- Terjeki, J. see Haddock, J. R.; et al., 90g:34068
- Trif, Damiana On the Dirichlet problem for differential equations with modified argument. 90h:34107
- Turi, Janos see Burns, John A.; et al., 90j:34093
- Ventura, A. A new approach to the method of nonlinear variation of parameters for a perturbed nonlinear neutral functional-differential equation. 90f:34105
- Verduyn Lunel, S. M. ★ Exponential type calculus for linear delay equations. 90j:34099
- Weir, Graham see McNabb, Alex, 90c:34126
- You, Bing Li (with Huang, Qing Guang) Fundamental theory of a class of functional equations and its application in the study of Kneser's theorem. 90h:34108
- Yun'kova, E. A. see Khasainov, D. Ya., 90h:34083
- Zhang, Shu Nian Functional-differential equations and topological dynamics. (Chinese) (Not in MR)
- Zheng, Zu Xiu Initial moments of retarded systems. (Chinese. English summary) (see 90j:34001)
- Zhou, Qin De (with Li, Yong*) Cauchy problems and periodic solutions to differential-difference equations with left and right shifts. 90j:34100
- Zima, Mirosława On the existence and uniqueness of solution of certain initial value problem. (Russian and Polish summaries) 90a:34149

Items with secondary classifications in 34K05

- Al-Salam, N. A. On some q -operators with applications. 90d:39007
- Atkinson, F. V. (with Haddock, J. R.) On determining phase spaces for functional-differential equations. 90f:45009
- Berezanskiĭ, L. M. Some properties of higher and general exponents of a linear functional-differential equation. (Russian) 90d:34090
- Besharati-Rad, A. see Gawthrop, P. J.; et al., 90i:93122
- Brunner, Hermann The approximate solution of nonlinear Volterra integro-differential equations with infinite delay. 90c:45004
- Budinčević, M. see Kulenović, M. R. S., 90a:34104
- Calvo Pinilla, Manuel (with Grande, T.) On the asymptotic stability of θ -methods for delay differential equations. 90a:65186
- Camargo, Ivan Second-order retarded functional-differential equations: generic properties. 90f:58155
- Chan Khyu Bong Normal solvability of linear differential operators with retarded argument in a space of functions bounded on the line. (Russian. Tajiki summary) 90d:47052
- Fredholm property of linear differential operators with retarded argument in the space of functions bounded on the axis. (Russian. Tajiki summary) 90d:47053
- Cheer, A. Y. (with Goldston, D. A.) A differential delay equation arising from the sieve of Eratosthenes. 90j:11091
- Diamond, Harold G. (with Halberstam, H.; Richert, H.-E.) Differential difference equations associated with sieves. 90h:11118
- Fiedler, Bernd (with Mallet-Paret, John) Connections between Morse sets for delay-differential equations. 90h:58238
- Friedman, Avner (with Romero, Louis A.) Functional-differential equations for the determination of the viscosity function in a rheometer. 90g:76022
- Gawthrop, P. J. (with Nihtilä, Markku T.; Besharati-Rad, A.) Recursive parameter estimation of continuous-time systems with unknown time delay. 90i:93122
- Goldston, D. A. see Cheer, A. Y., 90j:11091
- Grande, T. see Calvo Pinilla, Manuel, 90a:65186
- Gulka, S. S. Averaging in systems of integro-differential equations with impulse action. (Russian) 90g:45017
- Haddock, J. R. (with Hornor, W. E.) Precompactness and convergence in norm of positive orbits in a certain fading memory space. 90a:34160
- see also Atkinson, F. V., 90f:45009
- Halberstam, H. see Diamond, Harold G.; et al., 90h:11118
- Hornor, W. E. see Haddock, J. R., 90a:34160
- Kim, Yong Ho Representation of solutions of neutral functional-differential equations and spline approximations. (Korean. English summary) 90m:34157
- Kisilewicz, Michał Subtrajectory integrals of set-valued functions and neutral functional-differential inclusions. 90k:34010
- Konyukhova, N. B. Existence of stable initial manifolds for systems of nonlinear functional-differential equations. 90h:34121
- Korobeinik, Yu. F. Representation of analytic solutions of differential-difference equations by Dirichlet series. 90g:34004
- Kulenović, M. R. S. (with Budinčević, M.) L^p -perturbations of linear differential equations. (Serbo-Croatian summary) 90a:34104
- Kurbatov, V. G. Operators with continuous coefficients. (Russian) 90c:47047
- Functional-differential equations with continuous coefficients. (Russian) 90d:47042
- Kusch, D. V. Uniqueness of the determination of piecewise-constant coefficients of the heat equation. (Russian) 90j:35195
- Latipov, Kh. R. (with Nosirov, F. U.) ★ О влиянии запаздывания на нелинейные системы. (Russian) [The effect of delay on nonlinear systems] 90f:34074
- Mallet-Paret, John see Fiedler, Bernd, 90h:58238
- Mohammed, S. E. A. Unstable invariant distributions for a class of stochastic delay equations. 90h:60068
- Nihtilä, Markku T. see Gawthrop, P. J.; et al., 90i:93122
- Nosirov, F. U. see Latipov, Kh. R., 90f:34074
- Razzaghi, Mehdi see Razzaghi, Mohsen, (Not in MR)
- Razzaghi, Mohsen (with Razzaghi, Mehdi) Taylor series analysis of time-varying multi-delay systems. (Not in MR)
- Richert, H.-E. see Diamond, Harold G.; et al., 90h:11118
- Romero, Louis A. see Friedman, Avner, 90g:76022
- Sarihar, M. Justification of the averaging method for two-frequency systems on an infinite time interval. (Ukrainian. Russian summary) 90d:34085
- Schnabl, R. Über eine C^∞ -Funktion. (English summary) [On a C^∞ function] 90k:26043
- Werbowski, Jarosław Oscillations of advanced differential inequalities. 90d:34034
- Wheeler, Ferrell S. Two differential-difference equations arising in number theory. 90g:11134
- Wyrowska, Aleksandra Functional integrability of certain nonlinear differential equation with advanced arguments. 90d:34145
- Zhukovskaya, T. V. On the approximate construction of the Cauchy function. (Russian) (see 90k:00017)

34K10 Boundary value problems

- Abdullaev, A. R. Solvability of boundary value problems for functional-differential equations with Lipschitz nonlinearities. 90c:34132
- An, Gang (with Zhou, Qin De) Singular perturbation of boundary value problems for differential-difference equations. 90d:34129
- Bigun, Ya. I. (with Fodchuk, V. I.) Investigation of a boundary value problem for functional-differential equations by the averaging method. (Russian) 90c:34130

- Dang Dinh Hai Two point boundary value problem for differential equations with reflection of argument. 90b:34084
- Dudarev, E. P. Representation of a solution and solvability of a general boundary value problem for a system of linear functional-differential equations not solved with respect to the derivative. (Russian) (see 90j:00013)
- Fedchuk, V. I. see Bigun, Ya. I., 90c:34130
- Ibator, A. On the existence and uniqueness of the solution of a boundary value problem. (Russian) (see 90h:00003)
- Li, Yong⁶ see Wang, Hual Zhong, 90d:34132 and Zhou, Qin De, (Not in MR)
- Miao, Shu Mei A class of singularly perturbed boundary value problems with a fixed time delay. (Chinese. English summary) 90h:34109
- Singularly perturbed boundary value problems for a differential-difference equation with a small time delay. (Chinese. English summary) 90d:34130
- see also Zhou, Qin De, 90g:34071
- Prekup, Radu Nonlinear boundary value problems for infinite systems of second-order functional-differential equations. 90c:34070
- Pushkarev, G. A. A two-point problem for a second-order differential equation with deviating argument. (Russian) 90d:34131
- Saostak, Ewa Fredholm's alternative for some nonlinear differential-functional equations. 90h:34110
- Turner, Kh. T. (with Turdiev, T.) Formulation of a boundary value problem for first-order functional-differential equations of neutral type. (Russian) 90a:34150
- Turdiev, T. see Turner, Kh. T., 90a:34150
- Tyr, S. A. On a solution of a boundary value problem for differential equations with variable delay. (Russian) 90f:34106
- Wang, Hual Zhong An iteration method for differential-difference equations with left and right shifts. (Chinese. English summary) 90c:34100
- (with Li, Yong⁶) Differential equations with delay and advance. 90d:34132
- Xu, Jun Tao Singular perturbation solution of boundary value problem for a second order differential-difference equation. 90a:34151
- Singular perturbation solutions to boundary value problems for a class of second-order nonlinear differential-difference equations. (Chinese) 90c:34131
- Singular perturbation solution of boundary value problem for a second-order differential-difference equation. 90a:34152
- Singular perturbation solutions of boundary value problems for second-order quasilinear differential-difference equations. (Chinese. English summary) 90c:34132
- Zhou, Qin De (with Miao, Shu Mei) Boundary value problems for differential-difference equations. (Chinese) 90g:34071
- (with Li, Yong⁶) A note on boundary value problems of differential-difference equations with left and right shifts. (Not in MR)
- see also An, Gang, 90d:34129
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- Brodovskii, V. G. On an operator in the theory of linear boundary value problems for functional-differential equations. (Russian. Kazakh summary) 90j:47029
- Brykalov, S. A. Conditions for the existence of solutions that do not require isolation of the linear part in the boundary conditions. 90c:34112
- Corduneanu, C. Some global problems for Volterra functional-differential equations. 90h:34103
- Domoshnitskii, A. I. Preserving the sign of the Green function of a two-point boundary value problem for an n th-order functional-differential equation. 90i:34047
- Dostanić, Milutin Properties of the system of eigenfunctions for a boundary value problem for a functional differential equation with a discontinuous coefficient. (Serbo-Croatian summary) 90h:47101
- Grupp, Frieder On zeros of functions satisfying certain differential-difference equations. 90c:11133
- Ibrakhimov, A. M. On the completeness of root vectors of a differential operator with deviating argument. (Russian) 90c:47086
- Kamenskii, G. A. Variational and boundary value problems with deviating argument with asymmetric boundary conditions. (Russian) 90i:49023
- Larionov, A. S. Conditions for the solvability of some problems for a quasilinear equation of neutral type. (Russian) 90c:34125
- Mureşan, Viorica Some problems and results for the equation $u'(t) = f(t, u(t), u(\lambda t))$. (Romanian summary) 90d:34127
- Rumyantsev, A. N. Investigation of the solvability of a boundary value problem with application of systems of analytic calculations. (Russian) 90b:65160
- Rus, Ioan A. Maximum principles for some nonlinear differential equations with deviating arguments. 90c:34069
- ### 34K15 Qualitative theory
- Abu-Kaff, T. M. (with Dahiya, R. S.) Oscillation of solutions of arbitrary order functional-differential equations. 90h:34111
- (with Dahiya, R. S.) On oscillation and nonoscillation behaviour of bounded solutions of N th order delay differential equations. 90m:34133
- see also Dahiya, R. S., 90k:34087
- (Angelova, D. Ts.) see Arino, O., 90b:34100
- Arino, O. A note on: "On oscillation of solutions of forced functional-differential equations of second order" [Math. Nachr. 122 (1985), 289–300; MR 88b:34100] by D. C. Angelova and D. D. Bainov. 90b:34100
- (with Benkhalti, R.) Periodic solutions for: $\dot{x}(t) = \lambda f(x(t), x(t-1))$. 90b:34099
- (with Chérif, A.) An exact formula for the branch of period-4-solutions of $\dot{x} = -\lambda f(x(t-1))$ which bifurcates at $\lambda = \pi/2$. 90h:34112
- (with Györi, I.) Necessary and sufficient condition for oscillation of a neutral differential system with several delays. 90i:34101
- (with Ferreira, José M.) Total oscillatory behaviour globally in the delays. 90d:34133
- Arolska-Hekimova, Mariya At. (with Bainov, D. D.) Periodic solutions of autonomous systems of difference and difference-differential equations with a small delay. 90b:34101
- Bainov, D. D. (with Myshkis, A. D.; Zakhariyev, Andrei) Necessary and sufficient conditions for oscillation of the solutions of linear functional-differential equations of neutral type with distributed delay. 90f:34107
- (with Myshkis, A. D.; Zakhariyev, Andrei) Oscillatory and asymptotic properties of the solutions of linear autonomous equations of neutral type with distributed delay. 90b:34108
- (with Myshkis, A. D.; Zakhariyev, Andrei) On the oscillatory properties of the solutions of nonlinear neutral functional-differential equations of second order. 90k:34085
- (with Myshkis, A. D.; Zakhariyev, Andrei) On the oscillatory properties of the solutions of nonlinear neutral functional differential equations of second order. 90f:34109
- see also Arolska-Hekimova, Mariya At., 90b:34101; Khristova, S. G., 90c:34137; Zakhariyev, Andrei, 90f:34115 and Arino, O., 90b:34100
- Benkhalti, R. see Arino, O., 90b:34099
- Burton, Theodore Allen (with Dwiggins, D. P.; Feng, You He) Periodic solutions of functional-differential equations with infinite delay. 90j:34101
- (with Zhang, Bo¹) Uniform ultimate boundedness and periodicity in functional-differential equations. 90m:34134
- Chapin, Steven A. Differential delay equations that have periodic solutions of long period. 90c:34071
- On differential delay equations that have periodic solutions of long period. (see 90j:00016)
- Chen, Yong Shao Oscillation of two-dimensional first order functional-differential systems. 90a:34153
- On the oscillation of the second order neutral delay differential equations. 90h:34113
- Oscillation and asymptotic behavior of solutions of first-order linear functional-differential equations with oscillatory coefficients. (Chinese. English summary) 90i:34102
- Chérif, A. see Arino, O., 90b:34112
- Chow, Shui-Nee (with Lin, Xiao-Biao; Mallet-Paret, John) Transition layers for singularly perturbed delay differential equations with monotone nonlinearities. 90k:34086
- Dahiya, R. S. (with Abu-Kaff, T. M.) Almost oscillation of functional-differential equations. 90k:34087
- see also Abu-Kaff, T. M., 90b:34111 and 90m:34133
- Dolgii, Yu. F. Properties of the monodromy operator of a periodic system of differential equations of neutral type with deviating argument. 90c:34154
- Drakhlin, M. E. Periodic solutions of an equation with deviating argument. (Russian) 90f:34110
- Dwiggins, D. P. see Burton, Theodore Allen; et al., 90j:34101
- El-Nahas, A. Singular perturbation for a nonautonomous second order differential equation with retarded argument. (Arabic summary) 90h:34114
- Erbe, L. H. (with Zhang, Bing Gen) Oscillation of second order neutral differential equations. 90a:34155
- Farrell, K. Necessary and sufficient conditions for oscillation of neutral equations with real coefficients. 90f:34111
- Feng, You He The boundedness of solutions of a class of nonlinear functional-differential equations of second order. (Chinese. English summary) 90g:34072
- see also Burton, Theodore Allen; et al., 90j:34101
- Fenske, Christian C. An index for periodic orbits of functional-differential equations. 90m:34135
- Ferreira, José M. Oscillations and time lags. (see 90j:00016)
- see also Arino, O., 90b:34133
- Fu, Xi Lin see Ruan, Jiong, 90g:34074
- Fu, Yu Li Oscillation for a class of delay direct control systems. 90f:34112
- Furumochi, Tetsuo Periodic solutions of the equation $\dot{x}(t) = -f(x(t))(g(x(t)) + h(x(t-1)))$. 90c:34133
- Gao, Guo Zhu Periodic solutions of neutral functional-differential equations. (Chinese) 90c:34072
- Gopalsamy, K. (with Kulenović, M. R. S.; Ladas, G.) Oscillations in a periodic delay differential equation. 90k:34088
- (with Grove, E. A.; Ladas, G.) Neutral delay differential equations with variable delays. 90m:34136
- Oscillation in systems of linear differential equations with delayed and advanced arguments. 90i:34103
- Grace, S. R. (with Lalli, B. S.) Oscillation theorems for certain neutral differential equations. 90a:34156
- (with Lalli, B. S.) Oscillation theorems for damped-forced n th order nonlinear differential equations with deviating arguments. 90a:34157
- (with Lalli, B. S.) Oscillation theorems for n th order nonlinear differential equations with deviating arguments. 90a:34158
- Oscillation of even order nonlinear functional-differential equations with deviating arguments. 90k:34089
- (with Lalli, B. S.) Oscillation and asymptotic behavior of forced nonlinear delay differential equations. 90c:34134
- (with Lalli, B. S.) Some further results for higher order nonlinear differential equations with deviating arguments. (Not in MR)
- On the oscillatory and asymptotic behavior of even order nonlinear differential equations with retarded arguments. 90d:34134
- (with Lalli, B. S.) Asymptotic and oscillatory behavior of n th order forced functional-differential equations. 90c:34135
- Comparison theorems for forced functional-differential equations. 90k:34090
- Oscillatory and asymptotic behavior of damped functional-differential equations. 90k:34091
- (with Lalli, B. S.) Oscillation and asymptotic behavior of certain second order neutral differential equations. (Serbo-Croatian summary) 90h:34115
- Oscillation criteria for forced functional-differential equations with deviating arguments. 90m:34137
- Graef, John R. (with Spikes, Paul W.; Grammatikopoulos, Myron K.) Behavior of the nonoscillatory solutions of first order neutral delay differential equations. 90i:34104
- Grammatikopoulos, Myron K. see Graef, John R.; et al., 90i:34104
- Grove, E. A. see Gopalsamy, K.; et al., 90m:34136
- Gusarenko, S. A. Conditions for the solvability of problems on the accumulation of perturbations for functional-differential equations. (Russian) 90d:34135
- Györi, I. (with Ladas, G.) Linearized oscillations for equations with piecewise constant

- arguments. 90a:34159
- Oscillations of retarded differential equations of the neutral and the mixed types. 90b:34116
 - Existence and growth of oscillatory solutions of first order unstable type delay differential equations. 90b:34117
 - (with Ladas, G.; Pakula, L.) On oscillations of unbounded solutions. 90b:34102
 - Interaction between oscillations and global asymptotic stability in delay differential equations. 90b:34105
 - see also Arino, O., 90b:34101
- Haddock, J. R. (with Hornor, W. E.) Precompactness and convergence in norm of positive orbits in a certain fading memory space. 90a:34160
- Habek, Alexander Tests for disconjugacy and strict disconjugacy of linear differential equations with delays. 90b:34136
- He, Min (with Wang, Ke¹) Equivalences between h -boundedness and R^2 -boundedness. (Chinese. English summary) (Not in MR)
- (with Huang, Qi Chang; Wang, Ke¹) Phase spaces C_2 , C_3 , and g -uniform boundedness of FDE(ID). 90c:34136
- Hornor, W. E. see Haddock, J. R., 90a:34160
- Hu, Shi Geng The asymptotic properties of a class of functional-differential equations. (Chinese. English summary) 90b:34103
- Huang, Qi Chang see He, Min; et al., 90c:34136
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- Ivanov, Anatoli Flodorsovich (with Kusano, Takasi) The oscillatory nature of solutions of a class of first-order functional-differential equations of neutral type. (Russian) (Not in MR)
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- Li, Guang Hua² Theory of oscillations for large-scale systems with variable time delay and its applications. (Chinese. English summary) (Not in MR)
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- Zhang, Shu Nian Uniform stability theorems for bounded time-delay retarded functional-differential equations and unbounded time-delay neutral functional-differential equations. (Chinese) (Not in MR)
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- Meric, R. A. (with Altan, S. Burhanettin). Optimal control of memory dependent nonlocal elastic solids. 90c:73014
- Mohan, B. M. (with Datta, K. B.). Analysis of time-delay systems via shifted Chebyshev polynomials of the first and second kinds. 90c:93018
- Naito, Koichiro (with Park, Jong Yeoul). Approximate controllability for trajectories of a delay Volterra control system. 90f:93011
- Nakagiri, Shinichi (with Yamamoto, Masahiro). Controllability and observability of linear retarded systems in Banach spaces. 90b:93014
- Nersisyan, A. L. see Emel'yanov, S. V.; et al., 90c:93077
- Nguen Mi see Kao Tien Guin¹; et al., 90a:93067
- (Niezgódka, Marek) see Krasnosel'skii, M. A., 90a:93001
- Nibitili, Markku T. Adaptive control of a continuous-time system with time-varying input delay. 90c:93065
- Ouwatsu, Jerry U. On controllability of nonlinear systems with distributed delays in the control. 90d:93011
- Palmor, Z. J. see Cheres, E.; et al., 90i:93094
- Park, Jong Yeoul see Naito, Koichiro, 90f:93011
- Pearson, A. E. (with Flagbedzi, Y. A.). An observer for time lag systems. (Not in MR)

- Peichl, Gunther H. *see* Burns, John A., 90c:49078
- Pesheva, Yuliyana Khr. An algorithm for minimization of a quadratic function in linear control systems with delay. (Russian. English summary) (see 90d:90041)
- Pokrovskii, A. V. *see* Krasnosel'skii, M. A., 90a:93001
- Pourboghrat, Farzad (with Chyung, Dong Hak) Parameter identification of linear delay systems. 90k:93023
- Probst, Georg Piecewise linear approximation for hereditary control problems. 90m:49024
- Rivas Peres, Raul *see* Kao Tien Guin', et al., 90a:93067
- Rozsa, Roberto *see* Gómez Fernández, Juan Alfredo, 90g:93037
- Sadek, I. S. (with Sloss, J. M.; Bruch, J. C., Jr.; Adali, S.) Dynamically loaded beam subject to time-delayed active control. 90c:73080
- Sharipov, Sh. A. Structure of a multicriterial problem of a differential-difference system in the case of Slater optimality. (Russian) 90a:90190
- Shatyrka, A. V. (with Ivokhin, E. V.) Analysis of automatic control systems with delay on the basis of the second Lyapunov method. (Russian) (Not in MR)
- Shen, Chin Chung (with K'ung, Fan Ch'ü) Stabilization of input-delay systems with saturating actuator. (Not in MR)
- Shimemura, Etsujiro *see* Uchida, Kenko; et al., 90c:49042
- Sinha, A. S. C. Controllability of large-scale nonlinear systems with distributed delays in control and states. 90j:93019
- Sloss, J. M. *see* Sadek, I. S.; et al., 90c:73080
- Solnechnyi, E. M. Conditions for the stability and structural stability of a one-channel invariant system of arbitrary order. 90a:93083
- Sontag, Eduardo D. (with Yamamoto, Yutaka) On the existence of approximately coprime factorizations for retarded systems. 90i:93027
- Tadmor, Gilead H^∞ interpolation and systems with input delays: a time domain approach. 90m:93048
- Tadumadze, T. A. *see* Arsenashvili, A. I., 90c:49033
- Tran, H. T. *see* Ito, Kazufumi, 90m:65135
- Tsykunov, A. M. A quadratic criterion for absolute stability in the theory of adaptive systems. 90d:93069
- Tudor, Constantia Optimal control for a class of nonlinear stochastic hereditary systems. 90i:93143
- Uchida, Kenko (with Shimemura, Etsujiro; Kubo, T.; Abe, Naoto) The linear-quadratic optimal control approach to feedback control design for systems with delay. 90c:49042
- Ugrinovskaya, E. Ya. *see* Brasin, V. A., 90b:93081
- Vinter, R. B. *see* Briggs, Monica, 90c:93100
- Wagner, Peter *see* Jasinski, Heinrich, (Not in MR)
- Watanabe, Keiji Stabilization of linear systems with noncommensurate delays. 90b:93088
- Yamamoto, Masahiro *see* Nakagiri, Shinichi, 90h:93014
- Yamamoto, Yutaka *see* Sontag, Eduardo D., 90i:93027
- Zhuskova, A. G. *see* Khussainov, D. Ya., 90k:34100

34K99 None of the above, but in this section

- Chambers, L. G. Note on the functional-differential equation $\sum_{m=-\infty}^{\infty} a_m y'(x + m\alpha) = f(x)$. 90g:34082
- Tsarkov, E. F. \star Случайные возмущения дифференциально-функциональных уравнений. (Russian) [Random perturbations of functional-differential equations] 90m:34164

Items with secondary classifications in 34K99

- Asmykovich, I. K. Aperiodic control of linear discrete systems with delay. (Russian) (see 90m:93001)
- Ershov, S. V. Statistical properties of chaos in an equation with delay: large-scale approximation. (Russian. English summary) 90k:58129
- Kolmanovskii, V. B. Boundedness of moments of solutions of stochastic equations with aftereffect. 90k:60108
- Korenovskii, D. G. Absolute (with respect to nonlinearity and delay) stability in the mean square of stochastic differential-difference systems of automatic control. 90j:93111
- Rodkina, A. E. A proof of the solvability of nonlinear stochastic functional-differential equations. (Russian) 90k:60113
- Rybiński, Longin E. Random fixed points and viable random solutions of functional-differential inclusions. 90i:34088
- Shishikina, G. A. Formulation and solution of linear boundary value problems for Fredholm integro-differential equations with deviating argument. (Russian) (see 90a:00007)
- Wu, Jian Hong Periodic solutions of nonconvolution neutral integrodifferential equations. 90h:45024

35-XX Partial differential equations

Items with secondary classifications in 35-XX

- (Matveev, N. M.) *see* Partial differential equations, 90h:00010

Items listed otherwise than by author

- Partial differential equations \star Дифференциальные уравнения с частными производными. (Russian) [Partial differential equations] 90h:00010

35-00 Handbooks, dictionaries, and other reference works

- Courant, Richard (with Hilbert, D.) \star Methods of mathematical physics. Vol. II. 90k:35001
- (Fasano, A.) *see* Tarzia, D. A., 90k:35002
- Hilbert, D. *see* Courant, Richard, 90k:35001
- Tarzia, D. A. \star A bibliography on moving-free boundary problems for the heat-diffusion equation. The Stefan problem. 90k:35002

Items with secondary classifications in 35-00

- Zwillinger, Daniel \star Handbook of differential equations. 90k:00044

35-01 Elementary exposition; textbooks

- Barton, Gabriel \star Elements of Green's functions and propagation. 90f:35001
- Broman, Arne \star Introduction to partial differential equations. 90m:35001
- (Caloz, G.) *see* Cuvelier, C.; et al., 90k:35003a and 90k:35003b
- Chen, Ya Zhe *see* Jiang, Li Shang, 90g:35001
- Cuvelier, C. (with Descloux, J.; Rappaz, J.; Stuart, Charles A.; Zwahlen, B.) \star Éléments d'équations aux dérivées partielles pour ingénieurs. Théorie et méthodes numériques. 1. (French) [Partial differential equations for engineers. Theory and numerical methods. 1] 90k:35003a
- (with Descloux, J.; Rappaz, J.; Stuart, Charles A.; Zwahlen, B.) \star Éléments d'équations aux dérivées partielles pour ingénieurs. Théorie et méthodes numériques. 2. (French) [Partial differential equations for engineers. Theory and numerical methods. 2] 90k:35003b
- Descloux, J. *see* Cuvelier, C.; et al., 90k:35003a and 90k:35003b
- Ismator, M. \star Muodialakhoi fizikal matematik. Qismi I. (Tajiki) [Equations of mathematical physics. Part I] 90k:35001
- Jiang, Li Shang (with Chen, Ya Zhe) \star Shuxue wuli fangcheng jiangyi. (Chinese) [Lectures on equations of mathematical physics] 90g:35001
- Rappaz, J. *see* Cuvelier, C.; et al., 90k:35003a and 90k:35003b
- Stuart, Charles A. *see* Cuvelier, C.; et al., 90k:35003a and 90k:35003b
- Zaidman, Samuel \star Une introduction à la théorie des équations aux dérivées partielles. (French) [An introduction to the theory of partial differential equations] 90g:35002
- Zauderer, Erich \star Partial differential equations of applied mathematics. 90k:35004
- Zwahlen, B. *see* Cuvelier, C.; et al., 90k:35003a and 90k:35003b

Items with secondary classifications in 35-01

- Amundson, Neal R. *see* Rhee, Hyun Ku; et al., 90g:35086a and 90g:35086b
- Aris, R. *see* Rhee, Hyun Ku; et al., 90g:35086a and 90g:35086b
- (Bénilan, Philippe) *see* Dautray, Robert, 90k:00004
- (Berg, Christa) *see* Smirnov, Vladimir Ivanovich, 90k:00003b
- (Berg, Lothar) *see* Smirnov, Vladimir Ivanovich, 90k:00003b
- Carroll, Robert Wayne \star Mathematical physics. 90g:00002
- (Cessenat, Michel) *see* Dautray, Robert, 90k:00004
- Dautray, Robert (with Lions, Jacques-Louis) \star Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 7. (French) [Mathematical analysis and computing for science and technology. Vol. 7] 90m:00006a
- (with Lions, Jacques-Louis) \star Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 8. (French) [Mathematical analysis and computing for science and technology. Vol. 8] 90m:00006b
- (with Lions, Jacques-Louis) \star Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 9. (French) [Mathematical analysis and computing for science and technology. Vol. 9] 90m:00006c
- (with Lions, Jacques-Louis) \star Mathematical analysis and numerical methods for science and technology. Vol. 1. 90k:00004
- Drazin, P. G. (with Johnson, R. S.) \star Solitons: an introduction. 90j:35166
- (Gabitov, I. R.) *see* Newell, Alan C., 90m:35178
- (Gervat, André) *see* Dautray, Robert, 90k:00004
- Godin, Paul \star Long time existence of solutions to Cauchy and mixed problems for second order quasilinear hyperbolic equations. 90f:35114
- (Herbst, Ehrhard) *see* Smirnov, Vladimir Ivanovich, 90k:00003b
- Johnson, R. S. *see* Drazin, P. G., 90j:35166
- (Kavenoky, Alain) *see* Dautray, Robert, 90k:00004
- Kesavan, S. \star Topics in functional analysis and applications. 90m:46002
- (Kozlov, Ernest) *see* Vladimirov, V. S., 90k:00011
- (Ladyzhenskaya, O. A.) *see* Smirnov, Vladimir Ivanovich, 90k:00003b
- (Lanchon, Hélène) *see* Dautray, Robert, 90k:00004
- Lions, Jacques-Louis *see* Dautray, Robert, 90k:00004; 90m:00006a; 90m:00006b and 90m:00006c
- (Mikhailov, A. V.) *see* Newell, Alan C., 90m:35178
- Newell, Alan C. \star Солитоны в математике и физике. (Russian) [Solitons in mathematics and physics] 90m:35178
- (Orlov, A. Ya.) *see* Newell, Alan C., 90m:35178
- Rhee, Hyun Ku (with Aris, R.; Amundson, Neal R.) \star First-order partial differential equations. Vol. I. 90g:35086a
- (with Aris, R.; Amundson, Neal R.) \star First-order partial differential equations. Vol. II. 90g:35086b
- (Shul'man, E. I.) *see* Newell, Alan C., 90m:35178
- Smirnov, Vladimir Ivanovich \star Lehrgang der höheren Mathematik. Teil IV/2. (German) [Course of higher mathematics. Part IV/2] 90k:00003b
- (Sneddon, Ian N.) *see* Dautray, Robert, 90k:00004
- Sobolev, S. L. \star Некоторые применения функционального анализа в математической физике. (Russian) [Some applications of functional analysis in mathematical physics] 90m:46059
- (Teillac, Jean) *see* Dautray, Robert, 90k:00004
- Thayer, Francisco Javier \star Operadores auto-adjuntos e equações diferenciais parciais. (Portuguese) [Selfadjoint operators and partial differential equations] 90b:47001
- Vladimirov, V. S. \star Equazioni della fisica matematica. (Italian) [Equations of mathematical physics] 90k:00011
- \star Уравнения математической физики. (Russian) [The equations of mathematical physics] 90m:00009
- Watson, N. A. \star Parabolic equations on an infinite strip. 90c:35001
- Zilly, C. \star Problems in distributions and partial differential equations. 90d:46001

35-02 Advanced exposition (research surveys, monographs, etc.)

- Ames, W. F. *see* Rogers, Colla, 90i:35001

Lax, Peter D. (with Phillips, Ralph S.) ★ Scattering theory. 90h:35005

(Morawetz, Cathleen S.) see Lax, Peter D., 90h:35005

Phillips, Ralph S. see Lax, Peter D., 90h:35005

Rogers, Colin (with Ames, W. F.) ★ Nonlinear boundary value problems in science and engineering. 90i:35001

(Schmidt, E. J. P. Georg) see Lax, Peter D., 90h:35005

Tutachke, Wolfgang ★ Solution of initial value problems in classes of generalized analytic functions. 90h:35006

Watson, N. A. ★ Parabolic equations on an infinite strip. 90e:35001

Items with secondary classifications in 35-02

Arnol'd, V. I. (with Vishik, M. I.; Ilyashenko, Yu. S.; Kalashnikov, A. S.; Kondrat'ev, V. A.; Kruzhkov, S. N.; Landis, E. M.; Millionshchikov, V. M.; Oleinik, O. A.; Filippov, A. F.; Shubin, M. A.) Some unsolved problems in the theory of differential equations and mathematical physics. 90m:00003

Ermakov, S. M. (with Nekrutkin, V. V.; Sipin, A. S.) ★ Random processes for classical equations of mathematical physics. 90h:60168

Filippov, A. F. see Arnol'd, V. I.; et al., 90m:00003

Ilin, A. M. ★ Согласование асимптотических разложений решений краевых задач.

(Russian) [Matching of asymptotic expansions of solutions of boundary value problems] 90h:35062

Ilyashenko, Yu. S. see Arnol'd, V. I.; et al., 90m:00003

Kalashnikov, A. S. see Arnol'd, V. I.; et al., 90m:00003

Kondrat'ev, V. A. see Arnol'd, V. I.; et al., 90m:00003

Kruzhkov, S. N. see Arnol'd, V. I.; et al., 90m:00003

Landis, E. M. see Arnol'd, V. I.; et al., 90m:00003

Lekshin, A. A. (with Sagomonyan, E. A.) ★ Нелинейные волны в механике твердого тела. (Russian) [Nonlinear waves in the mechanics of a rigid body] 90d:35185

Melikulov, A. S. see Radkevich, E. V., 90f:35213

Millionshchikov, V. M. see Arnol'd, V. I.; et al., 90m:00003

Nekrutkin, V. V. see Ermakov, S. M.; et al., 90h:60168

Oleinik, O. A. see Arnol'd, V. I.; et al., 90m:00003

(Pazy, A.) see Vrabie, Ioan I., 90f:47101

(Polsharova-Kochina, P. Ya.) see Radkevich, E. V., 90f:35213

(Quandt, Juergen) see Zeidler, Eberhard, 90h:00004

Radkevich, E. V. (with Melikulov, A. S.) ★ Краевые задачи со свободной границей.

(Russian) [Boundary value problems with a free boundary] 90f:35213

Sagomonyan, E. A. see Lekshin, A. A., 90d:35185

Shubin, M. A. see Arnol'd, V. I.; et al., 90m:00003

Sipin, A. S. see Ermakov, S. M.; et al., 90h:60168

Taira, Kazuki ★ Diffusion processes and partial differential equations. 90m:60089

Vishik, M. I. see Arnol'd, V. I.; et al., 90m:00003

Vrabie, Ioan I. ★ Compactness methods for nonlinear evolutions. 90f:47101

Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. 90h:00004

Items listed otherwise than by author

Current problems in mathematics. Newest results ★ Current problems in mathematics. Newest results. Vol. 28. 90h:00023

35-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 35-03

Alimova, N. M. see Matveev, N. M., 90d:01025

(Lampartello, G.) see Levi-Civita, Tullio, 90h:01109

Levi-Civita, Tullio ★ Caratteristiche dei sistemi differenziali e propagazione ondata.

(Italian) [Characteristics of differential systems and wave propagation] 90h:01109

Matveev, N. M. (with Alimova, N. M.) Sources of asymptotic methods in the theory of partial differential equations. (Russian) 90d:01025

Nirenberg, L. Fully nonlinear elliptic equations. 90h:35088

35-04 Explicit machine computation and programs (not the theory of computation or programming)

Brackx, F. (with Serras, H.) Boundary value problems for the Laplacian in the Euclidean space solved by symbolic computation. (see 90i:68007)

Gerd, V. P. (with Zharkov, A. Yu.) Computer classification of integrable seventh order MKdV-like equations. (see 90i:68007)

Serras, H. see Brackx, F., (90i:68007)

Zharkov, A. Yu. see Gerd, V. P., (90i:68007)

Items with secondary classifications in 35-04

Drew, Mark S. (with Kloster, Steve C.; Gegenberg, J. D.) Lie group analysis and similarity solutions for the equation $\partial^2 u / \partial x^2 + \partial^2 u / \partial y^2 + \partial^2 (e^u) / \partial z^2 = 0$. 90h:58086

Fushchich, V. I. (with Korniyak, V. V.) Computer algebra application for determining Lie and Lie-Bäcklund symmetries of differential equations. 90d:58166

Gegenberg, J. D. see Drew, Mark S.; et al., 90h:58086

Kloster, Steve C. see Drew, Mark S.; et al., 90h:58086

Korniyak, V. V. see Fushchich, V. I., 90d:58166

35-06 Proceedings, conferences, etc.

(Balabane, Mikhael) see Integrable systems and applications, 90i:35002

(Bénilan, Philippe) see Recent advances in nonlinear elliptic and parabolic problems, 90i:35003

(Blanchard, Ph.) see New methods and results in nonlinear field equations, 90h:35003

(Bojarski, B.) see Partial differential equations, 90m:35003

(Carasso, C.) see Nonlinear hyperbolic problems, 90h:35004

(Charrier, P.) see Nonlinear hyperbolic problems, 90h:35004

(Chern, Shing Shen) see Partial differential equations, 90h:35005

(Chipot, M.) see Recent advances in nonlinear elliptic and parabolic problems, 90i:35003

(Colton, David) see Inverse problems in partial differential equations, 90j:35001

(Crandall, Michael G.) see Directions in partial differential equations, 90d:35001

(Dias, João-Paulo) see New methods and results in nonlinear field equations, 90h:35003

(Dwilewicz, Roman) see Partial differential equations, 90m:35003

(Evans, L. C.) see Recent advances in nonlinear elliptic and parabolic problems, 90i:35003

(Ewing, Richard E.) see Inverse problems in partial differential equations, 90j:35001

(Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 90h:35002 and Current problems in mathematics. Newest results, 90m:35002

(Hanouzet, B.) see Nonlinear hyperbolic problems, 90h:35004

(Jeffrey, Alan) see Nonlinear wave motion, 90d:35004

(Joly, J.-L.) see Nonlinear hyperbolic problems, 90h:35004

(Lochak, P.) see Integrable systems and applications, 90i:35002

(Luk'yanov, A. T.) see Mathematical modeling of nonstationary processes, 90e:35002 and Mathematical modeling of transport phenomena, 90h:35143a

(Mimura, Masayasu) see Recent topics in nonlinear PDE, 90j:35002

(Nishida, Takaaki) see Recent topics in nonlinear PDE, 90j:35002

(Pierre, Michel) see Recent advances in nonlinear elliptic and parabolic problems, 90i:35003

(Rabinowitz, Paul H.) see Directions in partial differential equations, 90j:35001

(Randell, William) see Inverse problems in partial differential equations, 90j:35001

(Stabbe, Joachim) see New methods and results in nonlinear field equations, 90h:35003

(Sulem, C.) see Integrable systems and applications, 90i:35002

(Turner, R. E. L.) see Directions in partial differential equations, 90d:35001

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Arcata, CA ★ Inverse problems in partial differential equations. 90j:35001

Bielefeld ★ New methods and results in nonlinear field equations. 90h:35003

Bordeaux ★ Nonlinear hyperbolic problems. 90h:35004

Conference:

Inverse Problems in Partial Differential Equations ★ Inverse problems in partial differential equations. 90j:35001

Nonlinear Fields ★ New methods and results in nonlinear field equations. 90h:35003

Recent Advances in Nonlinear Elliptic and Parabolic Problems ★ Recent advances in nonlinear elliptic and parabolic problems. 90i:35003

Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 63. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 63] 90h:35002

Current problems in mathematics. Newest results ★ Современные проблемы математики. Новейшие достижения. Том 37. (Russian) [Current problems in mathematics. Newest results. Vol. 37] 90m:35002

Directions in partial differential equations ★ Directions in partial differential equations. 90d:35001

Hirota's method in soliton theory ★ Suriton riron ni okeru Hirota no hōhō. (Japanese) [Hirota's method in soliton theory] 90d:35002

Île d'Oléron ★ Integrable systems and applications. 90i:35002

Integrable systems and applications ★ Integrable systems and applications. 90i:35002

Inverse problems in partial differential equations ★ Inverse problems in partial differential equations. 90j:35001

Itoji Nanki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 63. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 63] 90h:35002

— ★ Современные проблемы математики. Новейшие достижения. Том 37. (Russian) [Current problems in mathematics. Newest results. Vol. 37] 90m:35002

Kyoto ★ Recent topics in nonlinear PDE. IV. 90j:35002

Lecture Notes in Mathematics ★ Partial differential equations. 90h:35005

— ★ Nonlinear hyperbolic problems. 90h:35004

Lecture Notes in Physics ★ New methods and results in nonlinear field equations. 90h:35003

— ★ Integrable systems and applications. 90i:35002

Linear and nonlinear boundary value problems. Spectral theory ★ Linear and nonlinear boundary value problems. Spectral theory. 90d:35003

Madison, WI ★ Directions in partial differential equations. 90d:35001

Mathematical modeling of nonstationary processes ★ Математическое моделирование нестационарных процессов. (Russian) [Mathematical modeling of nonstationary processes] 90e:35002

Mathematical modeling of transport phenomena ★ Математическое моделирование явления переноса. (Russian) [Mathematical modeling of transport phenomena] 90h:35143a

Meeting:

Nonlinear Partial Differential Equations ★ Recent topics in nonlinear PDE. IV. 90j:35002

Nancy ★ Recent advances in nonlinear elliptic and parabolic problems. 90i:35003

New methods and results in nonlinear field equations ★ New methods and results in nonlinear field equations. 90h:35003

Nonlinear hyperbolic equations in applied sciences ★ Nonlinear hyperbolic equations in applied sciences. 90h:35004 (Not in MR)

Nonlinear wave motion ★ Nonlinear wave motion. 90d:35004

Partial differential equations ★ Partial differential equations. 90m:35003

— ★ Partial differential equations. 90h:35005

Recent advances in nonlinear elliptic and parabolic problems ★ Recent advances in nonlinear elliptic and parabolic problems. 90i:35003

Recent topics in nonlinear PDE ★ Recent topics in nonlinear PDE. IV. 90j:35002

Seminar:

Partial Differential Equations ★ Séminaire sur les Équations aux Dérivées Partielles 1987-1988. [Seminar on Partial Differential Equations 1987-1988] 90d:35005

— ★ Séminaire sur les Équations aux Dérivées Partielles. 1988-1989. (French) [Seminar on Partial Differential Equations. 1988-1989] 90h:35006

Symposium:

Differential Geometry and Differential Equations ★ Partial differential equations.

Symposium: (cont'd.)

- 90h:35005
Hirota's Method in Soliton Theory ★ Suriton riron ni okeru Hirota no hōhō. (Japanese) [Hirota's method in soliton theory] 90d:35002
Partial Differential Equations ★ Directions in partial differential equations. 90d:35001
Tianjin ★ Partial differential equations. 90h:35005
Turin ★ Nonlinear hyperbolic equations in applied sciences. (Not in MR)
Warsaw ★ Partial differential equations. 90m:35003
Workshop:
Integrable Systems and Applications ★ Integrable systems and applications. 90i:35002
Nonlinear Hyperbolic Equations in Applied Sciences ★ Nonlinear hyperbolic equations in applied sciences. (Not in MR)
Nonlinear Hyperbolic Problems ★ Nonlinear hyperbolic problems. 90h:35004

Items with secondary classifications in 35-06

- (Aftabizadeh, A. R.) see Differential equations and applications, 90j:00016
 (Clément, Philippe) see Semigroup theory and applications, 90b:00010
 (Colombini, Ferruccio) see Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
 (Dafermos, C. M.) see Differential equations, 90f:00003
 (De Giorgi, E.) see Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
 (Folias, Ciprian) see Connection between infinite-dimensional and finite-dimensional dynamical systems, 90h:58002
 (Gilb, Tepper L.) see Nonlinear semigroups, partial differential equations and attractors, 90f:00006
 (Holden, Helge) see Schrödinger operators, 90j:00024
 (Invernizzi, Sergio) see Semigroup theory and applications, 90b:00010
 (Jarvis, R. J.) see Ordinary and partial differential equations, 90h:00018
 (Jensen, Arne²) see Schrödinger operators, 90j:00024
 (Ladas, G.) see Differential equations, 90f:00003
 (Leon, Jérôme Jp.) see Nonlinear evolutions, 90k:00029
 (Lindquist, W. B.) see Current progress in hyperbolic systems: Riemann problems and computations, 90i:00003
 (Marino, Antonio) see Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
 (Mitidieri, Enzo) see Semigroup theory and applications, 90b:00010
 (Modica, Luciano) see Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
 (Moser, Jürgen K.) see Analysis, et cetera, 90m:00014
 (Nicolae, Basil) see Connection between infinite-dimensional and finite-dimensional dynamical systems, 90h:58002
 (Olver, Peter J.) see Solitons in physics, mathematics, and nonlinear optics, 90m:00048
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- Adomian, George A. (with Rach, R.; Elrod, M.) On the solution of partial differential

- equations with specified boundary conditions. 90f:35004
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- Elrod, M. *see* Adomian, George A.; et al., 90f:35004
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- Liang, Yuan Di Principal operators and principal normal operators of degree K . (Chinese. English summary) 90f:35011
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- Pashkovskii, A. V. The method of (p, q) connected operators for solving third-order differential equations and inverse problems. 90b:35009
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- Skorobogat'ko, V. Ya. Solution of systems of partial differential equations by means of the matrix method. (Russian) *see* 90b:00021
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- Zhuk, M. V. (with Drzonik, A. Ya.) Application of the Kantorovich method for systems of differential equations. (Ukrainian. Russian summary) (Not in MR)

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- Adam, Gh. Piecewise analytical perturbation series methods for solving linear ordinary differential equations. II. The radial Schrödinger equation. 90e:65094
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- (Kashiwara, Masaki) *see* Summary of Masaki Kashiwara's "The study of algebraic analysis", 90m:01005
- Khadrav, S. V. Solutions of second-order evolution equations, obtained by means of differential substitutions. (Russian) 90c:35005
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- Nečas, Jindřich A viscosity solution method for transonic flow. (Russian) *see* 90k:00021
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- Kajitani, Kunihiko (with Wakabayashi, Seiichi) Microhyperbolic operators in Gevrey classes. 90h:35013
- Lless, Otto (with Rodino, Luigi) Microlocal analysis for inhomogeneous Gevrey classes. 90b:35011
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- Badur, Janusz Generalized Helmholtz theorem for multi-forms. 90f:35012
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- Levi, D. Darboux and Bäcklund transformations for the Schrödinger equation. 90b:35015
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 Ermiin, Yu. A. (with Sveshnikov, A. G.) Conjugate equations in the method of auxiliary sources. 90g:35039
 Hackbusch, W. On first and second order box schemes. (German summary) 90g:65136
 Höllig, Klaus *see* de Boor, Carl; et al., 90h:39002
 Huang, Ming You A Hamiltonian approximation for nonlinear wave equations on n -dimensional spheres S^n . 90c:35145
 Krein, S. G. (with L'vin, S. Ya.) An approximation approach to overdetermined and underdetermined boundary value problems. (Russian) (see 90k:00021)
 Lachowicz, M. (with Monaco, R.) Existence and quantitative analysis of the solutions to the initial value problem for the discrete Boltzmann equation in all space. 90c:82039
 Lukmanov, R. L. Approximation of the solution of the second initial-boundary value problem in a half-space for a hyperbolic equation. (Russian) 90d:35167
 L'vin, S. Ya. *see* Krein, S. G., (90k:00021)
 Monaco, R. *see* Lachowicz, M., 90c:82039
 New, Ronald *see* Becker, Ronald I., 90j:35065
 Riemenhneider, S. D. *see* de Boor, Carl; et al., 90h:39002
 Romanenko, Yu. I. An approximation-iteration method for the approximation, by polynomials, of the solution of a nonlinear mixed problem for equations of hyperbolic type. (Russian) 90c:65113
 Salvi, R. Error estimates for the spectral Galerkin approximations of the solutions of Navier-Stokes type equations. 90f:35168
 Sharma, Rakesh K. Convergence criteria for systems of nonlinear elliptic boundary value partial differential equations. 90c:65127
 Sveshnikov, A. G. *see* Ermiin, Yu. A., 90g:35039

- Vrdoljak, Bobo The Dirichlet boundary value problem for a nonlinear elliptic equation. (Slovenian summary) 90k:35107
 Wanka, Gert (with Wanka, Johanna) Approximationsprobleme bei Randkontaktaufgaben. II. (Parabolische Probleme). [Approximation problems for boundary contact problems. II. (Parabolic problems)] 90m:35081
 Wanka, Johanna *see* Wanka, Gert, 90m:35081
 Werschulz, Arthur G. Average case complexity of elliptic partial differential equations. 90k:65188

35A40 Numerical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx, 65P05.}

Items with secondary classifications in 35A40

- Heinrich, Bernd (with Meisel, Mathias) Integralbilanzmethode für ein schwach nichtlineares elliptisches Problem auf unregelmäßigen Netzen. [Integral balancing method for a weakly nonlinear elliptic problem in irregular networks] 90c:65118
 Meisel, Mathias *see* Heinrich, Bernd, 90c:65118

35A99 None of the above, but in this section

Items with secondary classifications in 35A99

- Carter, Brandon (with Frolov, V. P.) Separability of string equilibrium equations in a generalised Kerr-de Sitter background. 90g:83056
 Frolov, V. P. *see* Carter, Brandon, 90g:83056
 Gromov, Mikhail L. ★ Partial differential relations. 90a:58201
 Ivanov, Valentin Konstantinovich Maslov semirings and linearization of differential equations. (Russian) 90g:12009
 Levin, A. B. (with Mikhailov, A. V.) A differential dimension polynomial and the rigidity of a system of differential equations. (Russian) 90b:12001
 Mikhailov, A. V. *see* Levin, A. B., 90b:12001
 Sadyrkhanov, R. S. Local and global implicit function theorems for equations with singularities. 90i:58008

35Bxx Qualitative properties of solutions

- Bernis, Francisco Qualitative properties for some nonlinear higher order degenerate parabolic equations. 90m:35014
 Ishii, Hitoshi (with Lions, P.-L.) Viscosity solutions of fully nonlinear second-order elliptic partial differential equations. 90m:35015
 Kenig, C. E. Restriction theorems, Carleman estimates, uniform Sobolev inequalities and unique continuation. 90m:35016
 Lions, P.-L. *see* Ishii, Hitoshi, 90m:35015
 Milani, Albert J. Long time existence and singular perturbation results for quasilinear hyperbolic equations with small parameter and dissipation term. 90f:35008
 — Long time existence and singular perturbation results for quasilinear hyperbolic equations with small parameter and dissipation term. II. 90f:35009
 Sacks, Paul E. Qualitative behavior for a class of reaction-diffusion-convection equations. 90j:35008

Items with secondary classifications in 35Bxx

- Bertsch, M. (with Dal Passo, Roberta; Ughi, Maura) Nonuniqueness and irregularity results for a nonlinear degenerate parabolic equation. 90m:35085
 — (with Dal Passo, Roberta; Ughi, Maura) Discontinuous "viscosity" solutions of a degenerate parabolic equation. 90m:35086
 Dal Passo, Roberta *see* Bertsch, M.; et al., 90m:35085 and 90m:35086
 Kondrat'ev, V. A. (with Landis, E. M.) Qualitative properties of solutions of some nonlinear elliptic equations. (Russian) (see 90k:00021)
 Landis, E. M. *see* Kondrat'ev, V. A., (90k:00021)
 Struwe, Michael On the evolution of harmonic maps in higher dimensions. 90j:58037
 Ughi, Maura *see* Bertsch, M.; et al., 90m:35085 and 90m:35086

35B05 Comparison theorems; oscillation, zeros and growth of solutions

- Acker, Andrew (with Kawohl, Bernhard) Remarks on quenching. 90c:35007
 Allegretto, W. (with Huang, Yin Xi) On positive solutions of a class of fourth order elliptic systems. 90i:35017
 Barles, G. (with Perthame, B.) Comparison principle for Dirichlet-type Hamilton-Jacobi equations and singular perturbations of degenerated elliptic equations. 90m:35017
 Begehr, Heinrich (with Hile, G. N.) Schauder estimates and existence theory for entire solutions of linear elliptic equations. 90a:35004
 Bernis, Francisco Liouville theorems and uniqueness in unbounded domains for nonlinear elliptic and parabolic equations. (see 90j:00016)
 Bouillet, J. E. Comparison of solutions of parabolic equations. (Spanish) 90d:35011
 Brown, K. J. (with Castro, Alfonso; Shivaji, R.) Nonexistence of radially symmetric nonnegative solutions for a class of semi-positone problems. 90f:35010
 — (with Hess, Peter) Stability and uniqueness of positive solutions for a semi-linear elliptic boundary value problem. 90j:35009
 Bugir, M. K. (with Dobrovrot, I. G.) Oscillability conditions for nonlinear equations in spaces of constant curvature. (Russian) 90j:35010
 — (with Dobrovrot, I. G.) Oscillability of solutions of differential equations in spaces of constant curvature. (Russian) 90h:35016
 Carl, S. A comparison result for nonlinear elliptic systems having nonmonotone nonlinearities. (German and Russian summaries) 90k:35012
 Castro, Alfonso *see* Brown, K. J.; et al., 90f:35010
 Chang, Ch'iu Chün On the existence of positive decaying solution of semi-linear elliptic equations in \mathbb{R}^n . 90k:35018

- Chen, Cai Sheng Blow-up of weak solutions to a class of degenerate parabolic systems of equations. (Chinese. English summary) **90c:35008**
- Costa, David Goldstein (with Jeggle, H.; Schaaf, R.; Schmitt, Klaus) Oscillatory perturbations of linear problems of resonance. **90a:35005**
- (with Gonçalves, J. V. A.) On the existence of positive solutions for a class of nonselfadjoint elliptic boundary value problems. **90c:35019**
- Dalmasso, Robert Solutions positives globales d'une équation biharmonique sur-linéaire. (English summary) [Entire positive solutions of a superlinear biharmonic equation] **90h:35017**
- Dancer, E. N. A note on an equation with critical exponent. **90c:35011**
- Dobrotvor, I. G. see Bugir, M. K., **90h:35016** and **90j:35010**
- Edelson, Allan L. (with Vakilian, Ramin) Bounded entire solutions of higher-order semilinear equations. **90j:35011**
- Asymptotic properties of semilinear equations. **90m:35018**
- Entire solutions of singular elliptic equations. **90f:35011**
- Fiedler, F. Oscillation criteria of Nehari-type for Sturm-Liouville operators and elliptic differential operators of second order and the lower spectrum. **90d:35012**
- Furusho, Yasuhiro (with Kusano, Takashi) On the existence of positive decaying entire solutions for a class of sublinear elliptic equations. **90k:35013**
- On decaying entire positive solutions of semilinear elliptic equations. **90a:35006**
- Gonçalves, J. V. A. see Costa, David Goldstein, **90c:35019**
- Goyal, Sulbha (with Goyal, Vinod B.) Liouville-type and uniqueness results for a class of sixth-order elliptic equations. **90h:35018**
- Goyal, Vinod B. see Goyal, Sulbha, **90h:35018**
- Guseinov, R. V. A theorem of Phragmén-Lindelöf type for the solutions of inhomogeneous quasi-elliptic equations. (Russian. English and Azerbaijani summaries) **90c:35020**
- Headley, V. B. Some examples in elliptic oscillation theory. (see **90j:00016**)
- Hess, Peter see Brown, K. J., **90j:35009**
- Hile, G. N. see Begehr, Heinrich, **90a:35004**
- Huang, Chen Fang Comparison principles and Liouville theorems for prescribed mean curvature equations in unbounded domains. **90m:35019**
- Huang, Yin Xi see Allegretto, W., **90j:35017**
- Jeggle, H. see Costa, David Goldstein, et al., **90a:35005**
- Jones, Christopher K. R. T. Radial solutions of a semilinear elliptic equation at a critical exponent. **90j:35012**
- Kania, Shoshana (with Vázquez, Juan Luis) Fundamental solutions and asymptotic behaviour for the p -Laplacian equation. **90m:35020**
- Kaper, Haas G. (with Kwong, Man Kam) Uniqueness of nonnegative solutions of a class of semi-linear elliptic equations. **90c:35013**
- (with Kwong, Man Kam) A nonoscillation theorem for the Emden-Fowler equation: ground states for semilinear elliptic equations with critical exponents. **90d:35014**
- Kawano, Nichiro (with Satsuma, Junkichi; Yotsutani, Shoji) Existence of positive entire solutions of an Emden-type elliptic equation. **90h:35016**
- On bounded positive solutions of quasilinear elliptic equations in \mathbb{R}^n . **90a:35007**
- Kawohl, Bernhard Comparison results between linear and quasilinear elliptic boundary value problems. **90f:35012**
- see also Acker, Andrew, **90c:35007**
- Kondrat'ev, V. A. see Kozlov, Vladimir Arkad'evich; et al., **90i:35021**
- Kozlov, Vladimir Arkad'evich A theorem on a strong zero for an elliptic boundary value problem in a corner. (Russian) **90j:35013**
- (with Kondrat'ev, V. A.; Maz'ya, V. G.) On sign variability and the absence of "strong" zeros of solutions of elliptic equations. **90i:35021**
- Kristev, D. I. A generalized Phragmén-Lindelöf theorem for the parabolic differential equation. **90j:35014**
- On the behavior of solutions of some semilinear elliptic and parabolic inequalities. **90k:35022**
- Kusano, Takashi (with Naito, Manabu; Swanson, Charles A.) Radial entire solutions of even order semilinear elliptic equations. **90c:35009**
- see also Furusho, Yasuhiro, **90k:35013**
- Kwong, Man Kam Uniqueness of positive solutions of $\Delta u - u + u^p = 0$ in \mathbb{R}^n . **90d:35015**
- see also Kaper, Haas G., **90d:35013** and **90d:35014**
- Lesky, P., Jr. Resonance phenomena for a class of partial differential equations of higher order in cylindrical waveguides. **90h:35019**
- Levine, Howard A. (with Meier, Peter) A blowup result for the critical exponent in cones. **90k:35014**
- Liang, Xi Ting A Phragmén-Lindelöf principle for the generalized solutions to a class of quasilinear elliptic equations. (Chinese. English summary) **90k:35015**
- Liu, Sung Shan On the existence of positive radial solutions for nonlinear elliptic equations in annular domains. **90k:35023**
- Lü, De Positive solutions of second-order quasilinear elliptic equations. (Chinese. English summary) **90f:35013**
- Lu, Li Jiang The singularity at boundary points of solutions to second-order semilinear elliptic and parabolic equations. (Chinese. English summary) **90d:35016**
- Landina, D. Sh. Bounded solutions of the Korteweg-de Vries equation. (Russian) **90c:35012**
- Ma, Tian see Yu, Qing Yu, **90m:35022**
- Makatsariya, G. T. On Liouville-type theorems for a class of singular elliptic first-order systems with two independent variables. (Russian. English and Georgian summaries) **90g:35009**
- Mawata, C. A priori estimates and existence theory for entire solutions of linear parabolic equations. (see **90j:00016**)
- Schauder estimates and existence theory for entire solutions of linear parabolic equations. **90i:35024**
- Maz'ya, V. G. see Kozlov, Vladimir Arkad'evich; et al., **90i:35021**
- McLeod, Kevin (with Troy, William C.; Weissler, F. B.) Radial solutions of $\Delta u + f(u) = 0$ with prescribed numbers of zeros. **90m:35021**
- Meier, Peter see Levine, Howard A., **90k:35014**
- Nabana, Éric (with de Thelin, François) Unicité de la solution radiale positive de l'équation quasiliénaire: $\Delta_p u + f(u, |x|) = 0$. (English summary) [Uniqueness of the positive radial solution of the quasilinear equation $\Delta_p u + f(u, |x|) = 0$] **90a:35008**
- Nagasaki, Ken'ichi Radial solutions for $\Delta u + |x|^l |u|^{p-1} u = 0$ on the unit ball in \mathbb{R}^n . **90j:35015**
- Naito, Manabu (with Yoshida, Norio) Oscillation criteria for a class of higher order elliptic equations. **90j:35016**
- see also Kusano, Takashi; et al., **90c:35009**
- Noussair, Ezzat S. (with Swanson, Charles A.) Decaying entire solutions of quasilinear elliptic equations. **90d:35017**
- (with Swanson, Charles A.) Decaying solutions of semilinear elliptic equations in \mathbb{R}^n . **90j:35017**
- Peletier, L. A. (with Troy, William C.) On nonexistence of similarity solutions. **90c:35010**
- Perthame, B. see Barles, G., **90m:35017**
- Rammaha, M. A. On the blowing up of solutions to nonlinear wave equations in two space dimensions. **90a:35009**
- Satsuma, Junkichi see Kawano, Nichiro; et al., **90h:35016**
- Schaaf, R. see Costa, David Goldstein; et al., **90a:35005**
- Schmitt, Klaus see Costa, David Goldstein; et al., **90a:35005**
- Shimomura, Katsunori The growth of the positive solutions of $Lu = 0$ near the boundary of an inner NTA domain. **90h:35017**
- Shivaji, R. see Brown, K. J.; et al., **90f:35010**
- Švaha, Peter Oscillation criteria for forced nonlinear elliptic equations of arbitrary order. (Russian and Slovak summaries) **90d:35018**
- Swanson, Charles A. see Kusano, Takashi; et al., **90c:35009**; Noussair, Ezzat S., **90d:35017** and **90j:35017**
- de Thelin, François see Nabana, Éric, **90a:35008**
- Troy, William C. see Peletier, L. A., **90c:35010** and McLeod, Kevin; et al., **90m:35021**
- Tuma, E. Comparison principles for strongly coupled reaction diffusion equations in unbounded domains. **90i:35025**
- Vakilian, Ramin see Edelson, Allan L., **90j:35011**
- Vázquez, Juan Luis see Kania, Shoshana, **90m:35020**
- Weissler, F. B. see McLeod, Kevin; et al., **90m:35021**
- Yoshida, Kiyoshi A remark on nonnegative solutions with compact support for degenerate semilinear elliptic equations. **90g:35010**
- Yoshida, Norio see Naito, Manabu, **90j:35016**
- Yotsutani, Shoji see Kawano, Nichiro; et al., **90h:35016**
- Yu, Qing Yu (with Ma, Tian) The positive solutions of quasilinear elliptic boundary value problem. **90m:35022**
- Zhang, Zhuang Zhi A generalized comparison/existence theorem for solutions to initial-boundary value problems of parabolic equations. (Chinese. English summary) **90i:35026**
- Zhou, Huan Song The existence of positive solutions to nonautonomous field equations on \mathbb{R}^n . (Chinese) **90k:35016**
- Zhu, Xi Ping Multiple entire solutions of a semilinear elliptic equation. **90c:35011**

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- Adams, Ernst Wilhelm see Herod, J. V.; et al., **90h:82037**
- Al, Jun (with Zhu, Xi Ping) Positive solutions of nonlinear eigenvalue problems. (Chinese. English summary) **90d:35094**
- Allegretto, W. (with Huang, Yin Xi) Existence of positive global solutions of mixed sublinear-superlinear problems. **90i:35092**
- Atkinson, F. V. (with Peletier, L. A.) Elliptic equations with critical growth when $N \geq 3$ and $N = 2$. **90i:35101**
- Bobisud, L. E. Existence and behavior of positive solutions for a class of parabolic reaction-diffusion equations. **90a:35116**
- (with Royalty, W. D.) Approach to a dead core for some reaction-diffusion equations. **90k:35134**
- Cao, Dao Min (with Zhu, Xi Ping) On the existence and nodal character of solutions of semilinear elliptic equations. **90d:35088**
- Castro, Alfonso (with Shivaji, R.) Nonnegative solutions to a semilinear Dirichlet problem in a ball are positive and radially symmetric. **90j:35084**
- (with Kurepa, Alexandra) Radially symmetric solutions to a superlinear Dirichlet problem in a ball with jumping nonlinearities. **90g:35053**
- Chen, Yun Gang see Fujita, Hiroshi, **90a:35111**
- Chi, Henjin (with Poorkarimi, H.; Wiener, Joseph; Shah, Swarupchand M.) On the exponential growth of solutions to nonlinear hyperbolic equations. **90h:35158**
- Dahlberg, B. E. J. (with Kenig, C. E.) Nonnegative solutions to fast diffusions. **90i:35128**
- Dalmasso, Robert Solutions d'équations elliptiques semi-linéaires singulières. (English summary) [Solutions of singular semilinear elliptic equations] **90g:35049**
- De Cesare, Matteo (with Pacella, Filomena) Geometrical properties of positive solutions of semilinear elliptic equations in some unbounded domains. (Italian summary) **90i:35096**
- Dudley, Richard M. (with Stroock, Daniel W.) Slepian's inequality and commuting semigroups. **90d:60065**
- Fel'reis, Eduard Large norm solutions to nonlinear elliptic problems. **90i:35104**
- Finn, Robert (with Huang, Chen Fang) On the comparison principle for capillary surfaces. **90h:35099**
- Franchi, Bruno (with Lanconelli, Ermanno) Radial symmetry of the ground states for a class of quasilinear elliptic equations. **90h:35085**
- Friedman, Avner Blow-up of solutions of nonlinear evolution equations. **90g:35019**
- Fujita, Hiroshi (with Chen, Yun Gang) On the set of blow-up points and asymptotic behaviours of blow-up solutions to a semilinear parabolic equation. **90a:35111**
- Giga, Yoshikazu (with Kohn, Robert V.) Nondegeneracy of blowup for semilinear heat equations. **90k:35034**
- Gustafsson, Björn (with Mossino, Jacqueline) Isoperimetric inequalities for the Stefan problem. (French summary) **90j:35200**
- Herod, J. V. (with Adams, Ernst Wilhelm; Spreuer, H.) Bounds for spatially nonhomogeneous model Boltzmann energy equations. **90h:82037**
- Huang, Chen Fang see Finn, Robert, **90h:35099**
- Huang, Yin Xi see Allegretto, W., **90j:35092**
- Kenig, C. E. see Dahlberg, B. E. J., **90i:35128**
- Kohn, Robert V. see Giga, Yoshikazu, **90k:35034**
- Komornik, V. On the vibrations of a square membrane. **90d:35160**

- Kuiper, Hendrik J. Bounds on the maximum modulus of solutions to quasilinear parabolic equations by means of a modified Lyapunov method. 90c:35029
- Kurbatov, A. A. Behavior of solutions of elliptic equations with arbitrarily bounded coefficients. (Russian. English and Azerbaijani summaries) 90h:35072
- Kurepa, Alexandra. *see* Castro, Alfonso, 90c:35053
- Laconelli, Ermanno. *see* Franchi, Bruno, 90h:35085
- Li, Jia Yu² Global behavior of positive solutions of elliptic equations. 90h:58260
- Lin, Chang Hao. A Liouville theorem for a class of nonlinear elliptic equations. (Chinese. English summary) 90h:35087
- Mossino, Jacqueline. *see* Gustafsson, Björn, 90j:35200
- Muravet, L. A. The wave equation and the Helmholtz equation in an unbounded domain with a star-shaped boundary. (Russian) 90c:35133
- Nikolenko, P. V. On the structure of the pre-image of zero of a nonnegative solution of a homogeneous equation with a biharmonic principal part. (Russian) 90c:35046
- Noussair, Ezzat S. (with Swanson, Charles A.) Solutions of Matukuma's equation with finite total mass. 90j:35091
- Pacella, Filomena. *see* De Cesare, Matteo, 90c:35096
- Peletier, L. A. *see* Atkinson, F. V., 90j:35101
- Pinsky, Ross. On comparing the solutions of linear diffusion equations with those of singular nonlinear "fast" diffusion equations. 90c:35115
- Poorkarimi, H. *see* Chi, Henjia; et al., 90h:35158
- Rammaha, M. A. Formation of singularities in compressible fluids in two-space dimensions. 90c:35127
- Robbiano, Luc. Dimension des zéros d'une solution faible d'un opérateur elliptique. [Dimension of the zeros of a weak solution of an elliptic operator] 90c:35059
- Royalty, W. D. *see* Bobisud, L. E., 90c:35134
- Shah, Swarupchand M. *see* Chi, Henjia; et al., 90h:35158
- Shivaji, R. *see* Castro, Alfonso, 90j:35084
- Sleman, B. D. (with Tuma, E.) Comparison principles for strongly coupled reaction-diffusion equations. 90a:35122a
— (with Tuma, E.) Erratum: "Comparison principles for strongly coupled reaction-diffusion equations". 90a:35122b
- Smoller, J. A. (with Wasserman, Arthur G.) Asymmetric solutions of problems with symmetry. 90j:35063
- Spreuer, H. *see* Herod, J. V.; et al., 90h:82037
- Stroock, Daniel W. *see* Dudley, Richard M., 90d:60065
- Swanson, Charles A. *see* Noussair, Ezzat S., 90j:35091
- de Thélin, François. Résultats d'existence et de non-existence pour la solution positive et bornée d'une e.d.p. elliptique non linéaire. (English summary) [Existence and nonexistence results for a positive bounded solution of a nonlinear elliptic partial differential equation] 90c:35074
- Tuma, E. *see* Sleman, B. D., 90a:35122a and 90a:35122b
- Turya, Lawrence. Spatial critical points of solutions of a one-dimensional nonlinear parabolic problem. 90h:35126
- Vázquez, Juan Luis (with Yaur, Cecilia) Isolated singularities of the Schrödinger equation with a good potential. 90a:35066
- Wasserman, Arthur G. *see* Smoller, J. A., 90j:35063
- Wiener, Joseph. *see* Chi, Henjia; et al., 90h:35158
- Yaur, Cecilia. *see* Vázquez, Juan Luis, 90a:35066
- Yoshida, Norio. On the zeros of solutions of hyperbolic equations of neutral type. 90h:35259
- Zamboni, Pietro. Some function spaces and elliptic partial differential equations. 90h:46080
- Zhu, Xi Ping. *see* Cao, Dao Min, 90d:35088 and Ai, Jun, 90d:35094
- ### 35B10 Periodic solutions
- Akhmerov, R. R. On periodic travelling waves of equations with viscosity coefficient of variable sign. 90c:35023
- de Andrade, N. G. Weak periodic solutions of a nonlinear wave equation. (Portuguese summary) 90h:35017
- Chen, Yunkai (with Wen, Shih Liang) On existence theorems of periodic traveling wave solutions to the two-dimensional Korteweg-de Vries equation. 90j:35018
- Cheng, Jian Gang. *see* Wang, Hai Ming, 90j:35011
- Day, W. A. A property of periodic solutions of parabolic equations which has implications for thermomechanics. 90c:35013
- Demenchuk, A. K. Periodic solutions of Pfaffian systems. (Russian. English summary) 90a:35010
- Fehribach, Joseph D. (with Shearer, Michael) Approximately periodic solutions of the elastic string equations. 90h:35027
- Feireisl, Eduard. Dynamic von Kármán equations involving nonlinear damping: time-periodic solutions. (Russian and Czech summaries) 90h:35020
- Hirano, Norimichi. On multiple periodic solutions for semilinear wave equations with forcing terms. 90j:35019
— Existence of multiple periodic solutions for a semilinear evolution equation. 90d:35019
- Kemochi, Nobuyuki (with Kubo, Masahiro) Periodic behavior of solutions to parabolic-elliptic free boundary problems. 90c:35028
- Khoma, G. P. *see* Mitropol'skii, Yu. A., 90a:35011
- Korman, Philip. On existence of solutions for two classes of nonlinear problems. 90d:35020
- Krejčí, Pavel. Periodic oscillations of an elastoplastic rod. (Russian) (see 90c:00021)
- Forced periodic vibrations of an elastic system with elastico-plastic damping. (Russian and Czech summaries) 90h:35018
— A monotonicity method for solving hyperbolic problems with hysteresis. (Russian and Czech summaries) 90h:35019
- Kubo, Masahiro. *see* Kemochi, Nobuyuki, 90c:35028
- Li, Zhi Ping. Periodic solutions of singularly perturbed parabolic equations. (Chinese) 90h:35020
- Lidskii, B. V. (with Shul'man, E. I.) Periodic solutions of the equation $u_{tt} - u_{xx} + u^3 = 0$. 90c:35012
- Mitropol'skii, Yu. A. (with Khoma, G. P.) Periodic solutions of second-order wave equations. IV. 90a:35011
- Naumkin, P. I. (with Shishmarëv, I. A.) A periodic problem for the Whitham equation. (Russian) 90j:35020
- Orlov, A. V. Periodic solutions of the Dirichlet problem for a nonlinear wave equation. (Russian) 90c:35013
- Petrova, M. A. (with Shishmarëv, I. A.) Periodic solutions of partial differential equations with small parameters. (Russian) 90c:35014
- Plotnikov, P. I. (with Yungerman, L. N.) Periodic solutions of a weakly nonlinear wave equation with an irrational relation of period to interval length. 90d:35022
— Existence of a countable set of periodic solutions of a problem on forced oscillations for a weakly nonlinear wave equation. 90d:35021
- Poorkarimi, H. Asymptotically periodic solutions for some hyperbolic equations. 90c:35012
- Salvatore, A. Solutions of minimal period of a wave equation via a generalization of a Hofer's theorem. 90c:35029
- Sartanov, Zh. A method for studying periodic solutions of partial differential equations of a special type. (Russian. Kazakh summary) 90c:35014
— On an investigation of multiperiodic solutions of partial differential equations. (Russian. Kazakh summary) 90j:35021
- Shearer, Michael. *see* Fehribach, Joseph D., 90j:35027
- Shishmarëv, I. A. *see* Petrova, M. A., 90c:35014 and Naumkin, P. I., 90j:35020
- Shul'man, E. I. *see* Lidskii, B. V., 90c:35012
- Smiley, Michael W. Breathers and forced oscillations of nonlinear wave equations on \mathbb{R}^3 . 90c:35015
- Štěrý, Milan. Small time periodic solutions of fully nonlinear telegraph equations in more spatial dimensions. (French summary) 90h:35021
- Tang, Xian Jiang. Periodic solutions of boundary value problems for systems of coupled quasilinear second-order parabolic equations. (Chinese. English summary) 90a:35013
- Vasil'eva, A. B. Periodic solutions of equations of parabolic type. (Russian) 90c:35016
— (with Volkov, V. T.) Asymptotics of periodic solutions of some systems with small diffusion. (Russian) 90m:35024
- Volkov, V. T. *see* Vasil'eva, A. B., 90m:35024
- Wang, Hai Ming (with Cheng, Jian Gang) Periodic solutions to nonlinear wave equations with a dissipation term. (Chinese. English summary) 90j:35011
- Wang, Zheng Ming. Oscillatory periodic solutions to some differential equations. (Chinese) 90c:35017
- Wang, Zhi Qiang. Multiple periodic solutions for a class of nonlinear nonautonomous wave equations. 90j:35022
- Wen, Shih Liang. *see* Chen, Yunkai, 90j:35018
- Yungerman, L. N. *see* Plotnikov, P. I., 90d:35022
- Zhestkov, S. V. Doubly periodic solutions of quasilinear hyperbolic partial differential systems. (Russian) 90h:35021
- ### Items with secondary classifications in 35B10
- Bobenko, A. I. (with Boddag, L. A.) Periodic multiphase solutions of the Kadomtsev-Petviashvili equation. 90h:35228
- Boddag, L. A. *see* Bobenko, A. I., 90h:35228
- Chan, Chia Yung (with Wong, Benedict M.) Periodic solutions of singular linear and semilinear parabolic problems. 90m:35080
- Gromyak, M. I. On the construction of periodic solutions of wave equations of hyperbolic type. (Russian) 90h:35089
- Harauz, A. A remark on Hölder continuity of periodic solutions to some nonlinear wave equations. 90h:35160
- Hassard, Brian D. (with Shiu, Lie June) Isolated periodic solutions of the Hodgkin-Huxley equations. 90g:92021
- He, Meng Xing (with Wang, Zong Hao) Periodic and almost periodic solutions of the reaction-diffusion system. (Chinese summary) 90d:35148
— Periodic and almost-periodic solutions of a class of reaction-diffusion equations with time lag. (Chinese) 90h:35127
- Hess, Peter. On periodic-parabolic boundary value problems. 90h:35145
— (with Weinberger, H.) Convergence to spatial-temporal clines in the Fisher equation with time-periodic fitnesses. 90h:35125
- Huang, Ming You. A Hamiltonian approximation for nonlinear wave equations on n -dimensional spheres S^n . 90c:35145
- Kaper, Hans G. (with Kwong, Man Kam) Comparison theorems and their use in the analysis of some nonlinear diffusion problems. 90d:34055
- Karabaliyev, R. K. (with Tazhimuratov, I.) Application of the Poincaré method to a system of first-order partial differential equations. (Russian) 90h:35050
- Koulikov, Anatoli. Bifurcation d'Andronov-Hopf et systèmes d'équations aux dérivées partielles singulières de type parabolique. [Andronov-Hopf bifurcation and systems of singular partial differential equations of parabolic type] 90d:35133
- Krejčí, Pavel. On Maxwell equations with the Preisach hysteresis operator: the one-dimensional time-periodic case. (Russian and Czech summaries) 90m:35176
- Kwong, Man Kam. *see* Kaper, Hans G., 90d:34055
- Levine, Howard A. Some boundary value problems for the wave equation. 90m:35128
- Logunov, B. V. (with Sabirova, S. G.) Branching of periodic solutions of nonlinearly perturbed elliptic equations. (Russian) 90d:35023
- Miloh, T. (with Tulin, M. P.) Periodic solutions of the DABO equation as a sum of repeated solitons. 90c:35185
- Miljević, P. S. Solvability of nonlinear operator equations with applications to hyperbolic equations. 90c:47114
- Nakao, Mitsuhiro. Decay and periodic solution for semilinear parabolic equations with a noninvertible linear operator. 90d:35154
— On some regularity of periodic solutions of the wave equation with a nonlinear or degenerate dissipative term. 90c:35115
- Newton, Paul K. Branching near nonlinear plane waves in dispersive systems. 90f:35189
- Sabirova, S. G. *see* Logunov, B. V., 90d:35023
- Scarpellini, B. Stability properties of space periodic standing waves. (German and Russian summaries) 90a:35019
- Shcherbina, V. A. Fundamental solutions of three-dimensional cellular problems for some equations of mathematical physics. (Russian) 90c:35006

- Shian, Lie June *see* Hassard, Brian D., 90g:92021
- Stoth, Barbara E. E. On periodic solutions of linear thermostat problems. 90d:35278
- Tzhibimuravov, I. *see* Karahaliev, R. K., 90b:35050
- Tulin, M. P. *see* Miloh, T., 90f:35185
- Vaillermot, Pierre-A. Variétés lisses associées à certains systèmes dynamiques et solitons périodiques pour les équations de Klein-Gordon non linéaires sur \mathbb{R}^2 . (English summary) [Smooth manifolds for certain dynamical systems and periodic solitons for nonlinear Klein-Gordon equations in \mathbb{R}^2] 90c:35157
- Wang, Zong Hao *see* He, Meng Xing, 90d:35148
- Weinberger, H. *see* Hess, Peter, 90k:35125
- Wong, Benedict M. *see* Chan, Chin Yeung, 90m:35080
- Yang, Yi Song Global spatially periodic solutions to the Ginzburg-Landau equation. 90d:35280
- Yi, Fa Hual An evolutionary continuous casting problem of two phases and its periodic behaviour. 90m:35212

35B15 Almost periodic solutions

- Berzhanov, A. B. *see* Zhakhashbaev, B. Zh., 90a:35014
- Prose, Giovanni Almost-periodic solutions of Navier-Stokes equations and inequalities. 90k:35018
- Scarpellini, B. (with Vuillermot, Pierre-A.) Smooth manifolds for semilinear wave equations on \mathbb{R}^2 : on the existence of almost-periodic breathers. 90b:35022
- Swirchewska, Zh. S. Existence of an almost periodic solution of a nonlinear wave equation. (Ukrainian. Russian summary) (Not in MR)
- Umbetzhano, D. U. Solutions of parabolic equations that are almost periodic with respect to all space-time variables. (Russian. Kazakh summary) 90g:35012
- Vaillermot, Pierre-A. *see* Scarpellini, B., 90b:35022
- Yamaguchi, Masaru Almost periodic solutions of one-dimensional wave equations with periodic coefficients. 90j:35023
- Zhakhashbaev, B. Zh. (with Berzhanov, A. B.) Construction of an almost multiperiodic solution of a system of partial differential equations with triangular matrix coefficients. (Russian) 90a:35014

Items with secondary classifications in 35B15

- Haraux, A. Recent results on semi-linear hyperbolic problems in bounded domains. 90m:35127
- He, Meng Xing (with Wang, Zong Hao) Periodic and almost periodic solutions of the reaction-diffusion system. (Chinese summary) 90d:35148
- Vaillermot, Pierre-A. Problèmes de Cauchy multipériodiques et solitons quasipériodiques pour les équations de Klein-Gordon non linéaires sur \mathbb{R}^2 . (English summary) [Multiperiodic Cauchy problems and quasiperiodic solitons for nonlinear Klein-Gordon equations on \mathbb{R}^2] 90b:35155
- Wang, Zong Hao *see* He, Meng Xing, 90d:35148

35B20 Perturbations

- Beirão da Veiga, H. A well-posedness theorem for nonhomogeneous inviscid fluids via a perturbation theorem. 90i:35030
- Ceppitelli, Rita (with Villarini, Massimo) Error bounds for solutions of systems of quasilinear hyperbolic partial differential equations in bicharacteristic form. 90j:35024
- Chen, Shao Hua The linearization principle for fully nonlinear perturbation equations. (Chinese summary) 90j:35025
- Simon, László On perturbations of boundary value problems for nonlinear elliptic equations on unbounded domains. 90b:35022
- Villarini, Massimo *see* Ceppitelli, Rita, 90j:35024
- Items with secondary classifications in 35B20
- van Harten, Aart Asymptotic analysis of stabilizing fronts. 90a:35045
- Hirano, Norimichi Nonlinear perturbations of second order linear elliptic boundary value problems. 90c:35091
- Erratum: "Unbounded nonlinear perturbations of linear elliptic problems at resonance" [J. Math. Anal. Appl. 132 (1988), no. 2, 434–446; MR 89m:35078]. 90c:35080
- Karpeshina, Yu. E. Perturbation theory for a polyharmonic operator with a nonsmooth periodic potential. (Russian. English summary) 90c:35067
- de Kerf, F. ★ Asymptotic analysis of a class of perturbed Korteweg-de Vries initial value problems. 90i:35247
- Kerimov, A. K. On the dependence of solutions of boundary value problems on the perturbation of a domain with respect to vector fields. 90a:35235
- Mizohata, S. On the Levi condition. 90j:35003
- Pandolfi, L. A class of boundary perturbations described by bounded operators. 90g:35026
- Sanchez-Hubert, J. Perturbation des valeurs propres pour des systèmes avec masse concentrée. (English summary) [Perturbation of the eigenvalues for systems with concentrated mass] 90j:35151

35B25 Singular perturbations

- Bellout, Hamid (with Friedman, Avner) Blow-up estimates for a nonlinear hyperbolic heat equation. 90c:35015
- Belyaev, A. G. Averaging the third boundary value problem for the Poisson equation in a domain with a rapidly oscillating boundary. (Russian) 90b:35023
- Bensoussan, A. Homogenization of nonlinear elliptic systems with zero order term coupling. 90c:35016
- Bian, Bao Jun The uniqueness of viscosity solutions of the second order fully nonlinear elliptic equations. 90a:35015
- Biler, Piotr A singular perturbation problem for nonlinear damped hyperbolic equations. 90c:35017
- Brillard, Alain Asymptotic analysis of two elliptic equations with oscillating terms. (French summary) 90c:35018
- Butuzov, V. F. *see* Vasil'eva, A. B., 90b:35024

- Chen, Gui Qiang (with Lu, Yun Guang) The study on application way of the compensated compactness theory. 90b:35024
- Chou, Yong Gang Boundary homogenization for parabolic problems. (Chinese) 90c:35019
- Evans, L. C. (with Souganidis, P. E.) A PDE approach to certain large deviation problems for systems of parabolic equations. 90j:35026
- Flyud, V. M. (with Tsybmal, Victor) A mixed problem for a hyperbolic equation with several small parameters. (Ukrainian. Russian summary) (Not in MR)
- A mixed problem for a singularly perturbed equation of hyperbolic type. (Ukrainian. Russian summary) (Not in MR)
- Frankowska, Halina Hamilton-Jacobi equations: viscosity solutions and generalized gradients. 90f:35018
- Friedman, Avner *see* Bellout, Hamid, 90c:35015
- Herwig, A. Elliptische Randwertprobleme zweiter Ordnung in Gebieten mit einer Fehlstelle. (English and Russian summaries) [Elliptic boundary value problems of second order in domains with one hole] 90m:35025
- Ilin, A. M. (with Shaigardanov, Yu. Z.) The agreement method for studying bisingular problems. (Russian) 90j:35027
- On the asymptotic behavior of the solution of a problem with a small parameter. 90i:35031
- Isaev, S. A. (with Smagulov, Sh. S.) ϵ -approximation of equations of a nonhomogeneous fluid. (Russian) 90b:35025
- Jimbo, Shuichi Singular perturbation of domains and the semilinear elliptic equation. II. 90b:35023
- Kang, Lian Cheng On singular perturbation for a nonlinear initial-boundary value problem. 90f:35019
- Kozhanov, A. I. Formulation and solvability of a boundary value problem for a class of equations that are not solved with respect to the time derivative. (Russian) 90f:35020
- Kubayshin, E. P. Self-oscillatory solutions of a class of singularly perturbed boundary value problems. 90g:35013
- The method of infinite-dimensional normalization in the investigation of self-oscillatory solutions of a class of singularly perturbed boundary value problems. 90j:35028
- Larchenko, V. V. Bifurcationally ill-posed problems and deterministic phenomena under conditions of singular perturbation. 90k:35019
- Li, Da Qian (with Tang, Qi) A class of boundary homogenization problems for parabolic equations. 90g:35014
- Licht, C. Homogénéisation d'un milieu incompressible viscoplastique de type Norton-Hoff périodiquement perforé. (English summary) [Homogenization of a periodically perforated Norton-Hoff incompressible viscoplastic medium] 90a:35016
- Lions, P.-L. Viscosity solutions of fully nonlinear second-order equations and optimal stochastic control in infinite dimensions. I. The case of bounded stochastic evolutions. 90j:35029
- Lobo-Hidalgo, Miguel (with Sánchez-Palencia, Enrique) Low and high frequency vibration in stiff problems. 90m:35026
- Lu, Yun Guang *see* Chen, Gui Qiang, 90b:35024
- Michelson, Daniel Initial-boundary value problems for incomplete singular perturbations of hyperbolic systems. 90i:35032
- Najman, B. Singular perturbations of elliptic boundary value problems in L . (Serbo-Croatian summary) 90i:35033
- Ngutseng, Gabriel A general convergence result for a functional related to the theory of homogenization. 90j:35030
- Oleinik, O. A. The eigenoscillations of bodies with concentrated mass. (Russian) 90c:35020
- Perthame, B. Perturbed dynamical systems with an attracting singularity and weak viscosity limits in Hamilton-Jacobi equations. 90c:35014
- Polisevskii, Dan On the homogenization of fluid flows through periodic media. 90b:35026
- Rodrigues, José-Francisco Singular perturbations in the obstacle plate problem. 90a:35017
- Sánchez-Palencia, Enrique *see* Lobo-Hidalgo, Miguel, 90m:35026
- Shaigardanov, Yu. Z. *see* Ilin, A. M., 90j:35027
- Smagulov, Sh. S. *see* Isaev, S. A., 90b:35025
- Souganidis, P. E. *see* Evans, L. C., 90j:35026
- Sweers, G. Estimates for elliptic singular perturbations in L_p -spaces. 90k:35020
- Szmolyan, Peter A singular perturbation analysis of the transient semiconductor device equations. 90b:35027
- Tang, Qi *see* Li, Da Qian, 90g:35014
- Tsybmal, Victor A third-order singularly perturbed equation. (Ukrainian. Russian summary) (Not in MR)
- Estimates for a solution of the Cauchy problem for a singularly perturbed hyperbolic equation. (Ukrainian. Russian summary) (Not in MR)
- Application of the method of energy integrals in a singularly perturbed problem. (Ukrainian. Russian summary) (Not in MR)
- A nonlocal problem for a singularly perturbed equation. (Ukrainian. Russian summary) (Not in MR)
- *see also* Flyud, V. M., (Not in MR)
- Vasil'eva, A. B. (with Butuzov, V. F.) Boundary layer methods in singularly perturbed partial differential problems. (Russian) 90b:35024

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- Amirat, Youcef (with Hamdache, Kamel; Ziani, Abdelhamid) Homogénéisation d'équations hyperboliques du premier ordre et application aux écoulements miscibles en milieu poreux. (English summary) [Homogenization of a system of first-order hyperbolic equations and application to miscible flows in a porous medium] 90c:35154
- Ashino, Ryuchi The reducibility of the boundary conditions in the one-parameter family of elliptic linear boundary value problems. I. 90d:35077
- Avellaneda, Marco (with Lin, Fang-Hua) Homogenization of Poisson's kernel and applications to boundary control. 90g:35016
- Bagaev, B. M. A study of a parabolic equation with a small parameter multiplying the highest derivative. (Russian) 90i:65188
- Bardi, Martino An asymptotic formula for the Green's function of an elliptic operator. 90c:35050
- Bayada, Guy (with Chambat, Michèle) Homogenization of the Stokes system in a thin film

- flow with rapidly varying thickness. (French summary) 90c:76060
- Bensoussan, A. (with Blankenship, G.) Controlled diffusions in a random medium. 90i:93137
- Blankenship, G. see Bensoussan, A., 90i:93137
- Boccardo, Lucio Homogénéisation pour une classe d'équations fortement non linéaires. (English summary) [Homogenization for a class of strongly nonlinear equations] 90c:35075
- Bosse, Marie-Pascale (with Showalter, R. E.) Homogenization of the layered medium equation. 90m:35103
- Bourland, F. Jay (with Haberman, Richard) The slowly varying phase shift for perturbed, single and multi-phased, strongly nonlinear, dispersive waves. 90k:35215
- Butuzov, V. F. (with Nefedov, N. N.; Polezhaeva, E. V.) Asymptotic solutions of linearized problems of the natural and forced resonance oscillations of a medium with small viscosity. (Russian) 90m:35149
- Carr, Jack (with Pego, Robert L.) Metastable patterns in solutions of $u_t = \varepsilon^2 u_{xx} - f(u)$. 90c:35091
- Cassis, B. Compensated compactness applied to a singular perturbed fourth order p.d.e. 90k:35168
- Chambati, Michèle see Bayada, Guy, 90c:76060
- Ciaranescu, Dolina (with Donato, Patrizia) Exact internal controllability in perforated domains. 90g:93007
- Cecile, Mario Michele Perturbations of nondegenerate solutions of some semilinear Dirichlet problems. (Italian summary) 90k:35102
- Codegone, Marco (with Sánchez-Palencia, Enrique) Asymptotics of the scattering frequencies for a thermoelasticity problem with small thermal conductivity. (French summary) 90i:35198
- Donato, Patrizia see Ciaranescu, Dolina, 90g:93007
- Dudzyanil, I. M. (with Tsymbal, Victor) Asymptotic solution of a mixed problem for a third-order equation. (Ukrainian. Russian summary) (Not in MR)
- Esham, Benjamin F., Jr. A hyperbolic singular perturbation of Burgers' equation. 90k:35223
- Fife, Paul C. ★ Dynamics of internal layers and diffusive interfaces. 90c:80012
- Fusco, G. (with Hale, Jack K.) Slow-motion manifolds, dormant instability, and singular perturbations. 90i:35131
- Garbey, M. Quasilinear hyperbolic-hyperbolic singular perturbation problem: study of shock layer. 90c:35143
- Garnaev, A. Yu. see Sedykh, L. G., (90c:00010)
- Germoul, Tajeddine Sur une méthode de calcul de structures soumises à des chargements cycliques: l'homogénéisation en temps. (English summary) [A method for calculating structures subject to cyclic loads: time homogenization] 90c:73045
- Guillot, J. C. (with Ralston, James V.; Trubowitz, E.) Semi-classical approximations in solid state physics. 90a:81032
- Haberman, Richard see Bourland, F. Jay, 90k:35215
- Hale, Jack K. see Fusco, G., 90i:35131
- Hamdache, Kamel see Amirat, Youcef; et al., 90k:35154
- van Hartes, Aart Asymptotic analysis of stabilizing fronts. 90a:35045
- Haut, Denise Stabilité et convergence dans les problèmes de perturbation singulière. (English summary) [Stability and convergence in singular perturbation problems] 90c:58077
- Ikeda, Hideo Global structure of traveling wave solutions for some bistable reaction-diffusion systems. 90c:35119
- (with Mimura, Masayasu) Wave-blocking phenomena in bistable reaction-diffusion systems. 90c:35150
- Ionescu, Ioan R. (with Tucsnak, M.) A singular perturbation problem for the heat equation in two phases media. 90i:35291
- Iosifyan, G. A. see Oleinik, O. A.; et al., 90m:35054
- Jimbo, Shuichi The singularly perturbed domain and the characterization for the eigenfunctions with Neumann boundary condition. 90c:35158
- A construction of the perturbed solution of semilinear elliptic equation in the singularly perturbed domain. 90j:35080
- Erratum: "The singularly perturbed domain and the characterization for the eigenfunctions with Neumann boundary condition" [J. Differential Equations 77 (1989), no. 2, 322–350; MR 90c:35158]. 90m:35144
- Joseph, K. T. Burgers' equation in the quarter plane, a formula for the weak limit. 90g:35142
- Boundary layers in approximate solutions. 90g:35096
- Kacimi, Hayat (with Murat, François) Estimation de l'erreur dans des problèmes de Dirichlet où apparaît un terme étrange. [Error estimation in Dirichlet problems containing a strange term] 90k:35071
- Kaira, Satoshi The Poisson equation with semilinear boundary conditions in domains with many tiny holes. 90m:35067
- Khoshnood, A. M. Limit transitions in optimal control problems for a fourth-order operator. 90g:35017
- Kolesov, A. Yu. Relaxation parabolic systems. 90j:35119
- Kolpakov, A. G. Asymptotics of the first boundary value problem for elliptic equations in a domain with a thin covering. 90c:35049
- Kozlov, S. M. Effective diffusion for the Fokker-Planck equation. 90c:35150
- Kozlova, M. V. Averaging of a three-dimensional problem in elasticity theory for a thin nonhomogeneous beam. (Russian) 90m:73014
- Leal, C. (with Sanchez-Hubert, J.) Perturbation of the eigenvalues of a membrane with a concentrated mass. (French summary) 90c:73077
- Lenhart, S. M. Viscosity solutions associated with impulse control problems for piecewise-deterministic processes. 90b:49042
- Li, Da Qian (with Tan, Yong Ji) Some identification problems in petroleum geophysics. (see 90d:93003)
- Li, Zhi Ping Periodic solutions of singularly perturbed parabolic equations. (Chinese) 90b:35020
- Lin, Fang-Hua see Avellaneda, Marco, 90g:35016
- Lobo-Hidalgo, Miguel (with Pérez, Eugenia) Asymptotic behaviour of an elastic body with a surface having small stuck regions. (French summary) 90b:73053
- Marcati, Pierangelo Convergence of approximate solutions to scalar conservation laws by degenerate diffusion. 90j:35136
- Markowich, Peter A. (with Szmolyan, Peter) A system of convection-diffusion equations with small diffusion coefficient arising in semiconductor physics. 90k:35140
- Mascarenhas, Maria Luisa A result of homogenization for a viscoelastic equation with nonperiodic coefficients. (see 90f:00003)
- Mimura, Masayasu see Ikeda, Hideo, 90d:35150 and Nishitani, Y., 90d:92016
- Minasyan, V. B. The averaging principle for parabolic equations ("the fast variable is an Anosov flow"). 90g:35066
- Molchanov, S. A. (with Piterbarg, L. I.) Averaging in a problem of turbulent diffusion. (Russian) 90i:35151
- Murat, François see Kacimi, Hayat, 90k:35071
- Nédélec, J.-C. (with Wolf, Sylvie) Homogenization of the problem of eddy currents in a transformer core. 90m:78016
- Nefedov, N. N. see Butuzov, V. F.; et al., 90m:35149
- Nesterov, A. V. Asymptotic behavior of a solution of a system of diffusion-sorption equations with small diffusion coefficients. (Russian) 90j:35053
- Nishitani, Y. (with Mimura, Masayasu) Layer oscillations in reaction-diffusion systems. 90d:92016
- Nunziante, Diana Uniqueness of viscosity solutions of fully nonlinear second order parabolic equations with discontinuous time-dependence. 90k:35135
- Ogneanyan, G. R. A weighted mean-value theorem for a singularly perturbed Laplace equation. 90f:35052
- Oleinik, O. A. (with Shamaev, A. S.; Iosifyan, G. A.) The Neumann problem for second order elliptic equations with rapidly oscillating periodic coefficients in a perforated domain. 90m:35054
- Ouyang, Liang On singular perturbation problems for a class of operator differential equations. (Chinese) 90f:34095
- Papa, Gelsi L. Bounds for effective coefficients of periodic fiber-reinforced materials. 90c:49024
- Pego, Robert L. see Carr, Jack, 90c:35091
- Pérez, Eugenia see Lobo-Hidalgo, Miguel, 90b:73053
- Piterbarg, L. I. see Molchanov, S. A., 90i:35151
- Polezhaeva, E. V. see Butuzov, V. F.; et al., 90m:35149
- Polivskii, Dan Homogenization of Navier-Stokes model: the dependence upon parameters. 90k:35196
- Ralston, James V. see Guillot, J. C.; et al., 90a:81032
- Sanchez-Hubert, J. see Leal, C., 90c:73077
- Sánchez-Palencia, Enrique see Codegone, Marco, 90i:35198
- Sedykh, L. G. (with Garnaev, A. Yu.) Solution of a singularly perturbed nonlinear differential equation of parabolic type. (Russian) (see 90b:00010)
- Shamaev, A. S. see Oleinik, O. A.; et al., 90m:35054
- Shen, Lian Shan The boundary layer weighted residual method for singular perturbation problems of parabolic equations. (Chinese. English summary) 90c:65152
- Shishkin, G. I. Approximation of solutions of singularly perturbed boundary value problems with a parabolic boundary layer. (Russian) 90f:35086
- Showalter, R. E. (with Xu, Xiang Sheng) Convergence of diffusion with concentrating capacity. 90d:78006
- see also Bosse, Marie-Pascale, 90m:35103
- Smith, Richard A. On a hyperbolic quenching problem in several dimensions. 90b:35165
- Sukretniy, V. I. Convergence of energy integrals, generalized gradients and solutions in a problem of the averaging of second-order elliptic equations with nonuniformly oscillating coefficients. (Russian) 90b:35069
- Szmolyan, Peter A nonlinear hyperbolic system occurring in semiconductor device physics. 90f:35139
- see also Markowich, Peter A., 90k:35140
- Tadlaoui, Ahmed (with Tapiéro, Roland) Calcul par homogénéisation des microcontraintes dans une plaque hétérogène dans son épaisseur. (English summary) [Calculation of microstresses in a thick heterogeneous plate using homogenization] 90a:73036
- Tan, Yong Ji see Li, Da Qian, (90d:93003)
- Tapiéro, Roland see Tadlaoui, Ahmed, 90a:73036
- Trubowitz, E. see Guillot, J. C.; et al., 90a:81032
- Trudinger, Neil S. On regularity and existence of viscosity solutions of nonlinear second order, elliptic equations. 90m:35041
- On the twice differentiability of viscosity solutions of nonlinear elliptic equations. 90f:35038
- Tsymbal, Victor see Dudzyanil, I. M., (Not in MR)
- Tucsnak, M. see Ionescu, Ioan R., 90i:35291
- Uchlyama, Kōichi L^2 -theory of singular perturbation of hyperbolic equations. I. A priori estimates with parameter ε . 90b:35141
- Wendt, W. D. The reduced operators of singularly perturbed Wiener-Hopf matrices. 90b:47095
- Wolf, Sylvie see Nédélec, J.-C., 90m:78016
- Xu, Xiang Sheng see Showalter, R. E., 90d:78006
- Yunusov, M. Yu. A nonstandard boundary value problem that contains a small parameter. 90j:47013
- Ziani, Abdelhamid see Amirat, Youcef; et al., 90k:35154

35B30 Dependence of solutions on initial and boundary data, parameters

- Ames, Karen A. (with Levine, Howard A.; Payne, L. E.) Improved continuous dependence results for a class of evolutionary equations. (see 90f:00004)
- Fang, Zhen Zhen The domain of existence for positive solutions of boundary value problems of the equation $\Delta u + f(u) = 0$, and the quenching phenomenon. (Chinese. English summary) 90c:35021
- Gushchin, A. K. Dependence of the behavior, for large time values, of a solution of a parabolic equation on the data of the problem. (Russian) 90f:35021
- Levine, Howard A. see Ames, Karen A.; et al., (90f:00004)

- Payne, L. E. *see* Ames, Karen A.; et al., 90f:00004
- Penning, F. D. A stability theory for initial-boundary value problems of parabolic type. 90j:35031
- Salsa, Sandro Boundary behavior for solutions of elliptic and parabolic equations. (Italian. English summary) 90m:35027
- Song, J. C. Continuous dependence on the time and spatial geometry for the equations of thermoelasticity. 90e:35015
- Tomaselli, Giuseppe Continuous dependence of the solution of the Darboux problem on the coefficients of the equation. (Italian. English summary) 90g:35015
- Items with secondary classifications in 35B30
- Alvarez, Luis (with Díaz Díaz, Jesús Ildefonso; Kersner, R.) On the initial growth of the interfaces in nonlinear diffusion-convection processes. 90e:35086
- Bona, J. L. (with Winther, R.) The Korteweg-de Vries equation in a quarter plane, continuous dependence results. 90e:35134
- Cannon, John R. (with Lin, Yanping) Classical and weak solutions for one-dimensional pseudo-parabolic equations with typical boundary data. 90c:35129
- Chipot, M. (with Weissler, F. B.) Some blowup results for a nonlinear parabolic equation with a gradient term. 90h:35033
- Díaz Díaz, Jesús Ildefonso *see* Alvarez, Luis; et al., 90e:35086
- Faminskii, A. V. The Cauchy problem for the Korteweg-de Vries equation and its generalizations. (Russian. English summary) 90c:35173
- Friedman, Avner (with Vogelius, Michael) Identification of small inhomogeneities of extreme conductivity by boundary measurements: a theorem on continuous dependence. 90c:35198
- Gagnidze, A. G. The uniqueness of solutions of boundary value problems for parabolic equations in unbounded domains. (Russian. English summary) 90d:35130
- Harris, Greg A. A nonlinear Dirichlet problem with nonhomogeneous boundary data. 90m:35066
- Heijmans, H. J. A. M. (with Metz, J. A. J.) Small parameters in structured population models and the Trotter-Kato theorem. 90h:92019
- Kaliaskarova, T. R. A study of conditional well-posedness of boundary value problems for second-order model parabolic systems. (Russian. English summary) 90h:35115
- Kerimov, A. K. On the dependence of solutions of boundary value problems on the perturbation of a domain with respect to vector fields. 90a:35235
- Kersner, R. *see* Alvarez, Luis; et al., 90e:35086
- Lasiecka, I. (with Triggiani, R.) Trace regularity of the solutions of the wave equation with homogeneous Neumann boundary conditions and data supported away from the boundary. 90g:35026
- Lin, Yanping *see* Cannon, John R., 90c:35129
- Lanardi, Alessandra Maximal space regularity in nonhomogeneous initial-boundary value parabolic problem. 90e:35093
- Metz, J. A. J. *see* Heijmans, H. J. A. M., 90h:92019
- Mosenkov, V. B. Stability of solutions of an axially symmetric problem of the convection of a viscous fluid. 90c:35154
- Payne, L. E. On stabilizing ill-posed problems against errors in geometry and modeling. 90i:35277
- Serrin, James Positive solutions of a prescribed mean curvature problem. 90d:35105
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Arkhipova, A. A. (with Ural'tseva, N. N.) Regularity of the solution of a problem with a two-sided limit on a boundary for elliptic and parabolic equations. (Russian) 90k:35044

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— (with Kondrat'ev, V. A.) Regularity of solutions of higher-order elliptic equations with continuous coefficients. 90i:35050

Barles, G. Regularity results for first order Hamilton-Jacobi equations. 90i:35051

Campanato, Sergio Existence and $\mathcal{L}^{2,p}$ regularity for a class of nonlinear systems with monotonicity hypothesis. (Italian summary) 90k:35041

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Chen, Zu Chi Regularity for $H^{1,2}$ -solutions of certain degenerate elliptic equations. (Chinese summary) 90k:35030

Chistyakov, V. M. Smoothness of solutions of quasilinear parabolic systems with nondifferentiable coefficients. 90k:35042

Di Fazio, Giuseppe Hölder-continuity of solutions for some Schrödinger equations. 90k:35050

Dzhurav, T. D. (with Kadyrov, R. R.) Estimates for n th-order derivatives of solutions of elliptic and parabolic equations at infinity. (Russian) 90k:35045

Gérard, Patrick Regularization by averaging for solutions of partial differential equations. 90k:35051

Govorov, V. M. (with Safiev, E. K.) Membership in class W_2^1 of the classical solution of the Dirichlet problem for second-order elliptic systems. (Russian) 90j:35042

Guliev, A. F. Capacity conditions for the regularity of boundary points for parabolic second-order equations. (Russian. English and Azerbaijani summaries) 90j:35043

Idone, Giovanna L^p -regularity of the solutions of higher-order nonlinear parabolic systems with quadratic growth. (Italian. English summary) 90k:35052

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Kadyrov, R. R. Behavior of the solutions of higher-order elliptic equations in the neighborhood of nonregular boundary points. (Russian) 90d:35043

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Karapetyan, G. A. Smooth dependence on a parameter of solutions of regular equations. (Russian. English and Armenian summaries) 90k:35046

Kolodit, I. M. Hölder continuity of generalized solutions of parabolic equations in divergence form with degeneration. (Ukrainian. Russian summary) (Not in MR)

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Kwon, K. H. (with Song, B. C.) Interior regularity of solutions of equations with symplectic double characteristics. (see 90j:00016)

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Laurence, Peter (with Stredulinsky, Edward) A survey of recent regularity results for second order queer differential equations. 90a:35036

Liao, Liang Yuan Global regularity of solutions of elliptic Monge-Ampère equations. (Chinese summary) 90j:35046

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Ponce, Gustavo Regularity of solutions to nonlinear dispersive equations. 90k:35031

Qian, Bao Kang Hölder continuity of solutions to a class of nonlinear parabolic equations. (Chinese. English summary) 90k:35047

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Spagnolo, Sergio Analytic regularity of the solutions of a semi-linear weakly hyperbolic equation. 90k:35032

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Trudinger, Neil S. Hölder gradient estimates for fully nonlinear elliptic equations. 90k:35041

— On regularity and existence of viscosity solutions of nonlinear second order, elliptic equations. 90m:35041

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- Berhanu, S. Propagation of hypo-analyticity along bicharacteristics. 90i:35009
- Brenner, Philip On space-time means and strong global solutions of nonlinear hyperbolic equations. 90d:35181
- Caffarelli, Luis A. A Harnack inequality approach to the regularity of free boundaries. II. Flat free boundaries are Lipschitz. 90b:35246
- Chemin, Jean-Yves Régularité de la solution d'un problème de Cauchy fortement non linéaire à données singulières en un point. (English summary) [Regularity of the solution of a strongly nonlinear Cauchy problem with singular data at a point] 90i:35068
- Chen, Shu Xing Smoothness of shock front solutions for systems of conservation laws. 90k:35162
- Piecewise smooth solutions of semilinear hyperbolic systems in higher space dimension. 90k:35156
- Chen, Ya Zhe (with DiBenedetto, E.) Boundary estimates for solutions of nonlinear degenerate parabolic systems. 90g:35085
- Ciocanani, M. Existence, uniqueness and propagation of the regularity of the solution of the Cauchy problem for some strictly hyperbolic operators with Lipschitz coefficients with respect to time. (Italian. English summary) 90e:35105
- Dango, Monique Problèmes de Neumann et de Dirichlet sur un polyèdre dans \mathbb{R}^3 : régularité dans des espaces de Sobolev L_p . (English summary) [Neumann and Dirichlet problems on a three-dimensional polyhedron: regularity in the L_p Sobolev spaces] 90a:35057
- Debbaj, Omar (with Intissar, Ahmed) Régularité L^p des problèmes aux limites de type Hermite et Tricomi. [L^p -regularity of boundary value problems of Hermite and Tricomi type] 90e:35075
- DiBenedetto, E. see Chen, Ya Zhe, 90g:35085
- Dierkes, Ulrich Minimal hypercones and $C^{0,1/2}$ minimizers for a singular variational problem. 90d:49029
- A classification of minimal cones in $\mathbb{R}^n \times \mathbb{R}^+$ and a counterexample to interior regularity of energy minimizing functions. 90b:49032
- Doan Van Ngoc (with Nguyễn Mạnh Hùng) On the smoothness of the solution of a mixed problem for second-order elliptic equations in domains with corner points. (Vietnamese. Russian summary) 90j:35073
- Gelse, F. Quelques résultats de moyennisation pour les équations aux dérivées partielles. [Some averaging results for partial differential equations] 90m:35214
- Gushchin, A. K. The Dirichlet problem for a second-order elliptic equation. 90k:35083
- Haraux, A. A remark on Hölder continuity of periodic solutions to some nonlinear wave equations. 90h:35160
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- Kwong, Ying C. Interior and boundary regularity of solutions to a plasma type equation. 90d:35143
- Lascar, Bernard (with Lascar, Richard) Propagation des singularités Gevrey pour des ondes diffractives. (English summary) [Propagation of Gevrey singularities for diffractive waves] 90d:35066
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- Lieberman, Gary M. Boundary regularity for solutions of degenerate elliptic equations. 90a:35098
- Intermediate Schauder theory for second order parabolic equations. III. The tusk conditions. 90j:35108
- Lumardi, Alessandra Maximal space regularity in nonhomogeneous initial-boundary value parabolic problem. 90c:35093
- Marshall, Bernard The regularity of solutions of nonlinear wave equations. 90d:35190
- Muradov, Kh. R. A mixed boundary value problem for the Schrödinger equation. (Russian. English and Azerbaijani summaries) 90k:35070
- Muratbekov, M. B. (with Otelbaev, M.) Smoothness and approximation properties for solutions of a class of nonlinear equations of Schrödinger type. (Russian) 90i:35077
- Nadirashvili, N. S. Continuous solutions of the Neumann problem in Lipschitz domains. (Russian) 90h:35077
- Nakamitsu, Kuniaki Smoothing effects for Schrödinger evolution groups. 90a:47126
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- Rakotoson, J.-M. (with Ziemer, William P.) Local behavior of solutions of quasilinear elliptic equations with general structure. 90j:35082
- Rempel, S. Regularity of solutions to degenerate operators. 90j:35096
- Schumann, Rainer Regularity for Signorini's problem in linear elasticity. 90c:35098
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- Spagnolo, Sergio Some results of analytic regularity for the semi-linear weakly hyperbolic equations of the second order. 90f:35138
- Terreni, Brunello Nonhomogeneous initial-boundary value problems for linear parabolic systems. 90g:35067
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- Zuily, C. Existence locale de solutions C^∞ pour l'équation de Monge-Ampère. (English summary) [Local existence of C^∞ solutions for the Monge-Ampère equation] 90e:35078
- Zykov, A. A. Partial regularity of gradients of solutions of nonlinear parabolic systems of nondiagonal form. (Russian. English summary) 90m:35092

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- Avellaneda, Marco (with Lin, Fang-Hua) Compactness methods in the theory of homogenization. II. Equations in nondivergence form. 90c:35035
- Bernis, Francisco Source-type solutions of fourth order degenerate parabolic equations. 90c:35039
- Kodama, Yuji Nearly integrable systems: normal form and solitons. (see 90k:00029)
- Lin, Fang-Hua see Avellaneda, Marco, 90c:35035
- Lin, Sung Shan Symmetry breaking for $\Delta u + 2\delta e^{-u} = 0$ on a disk with general boundary conditions. 90i:35053
- Liens, P.-L. Une approche élémentaire de quelques résultats de symétrisation. [An elementary approach to some symmetrization results] 90a:35039
- Malanin, V. V. see Voronina, N. V.; et al., (90d:00012)
- Perekrest, V. I. Solution of the second boundary value problem for a second-order nonselfadjoint equation. (Russian) 90d:35045
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- Solov'ev, I. A. Development of an apparatus of compatibility conditions as applied to problems for partial differential equations with nonlinear coefficients. (Russian) 90c:35028
- Tartar, L. Discontinuities and oscillations. 90k:35056
- Voronina, N. V. (with Malanin, V. V.; Rekka, R. A.) Behavior of the solutions of a class of partial differential equations in an infinite domain. (Russian) (see 90d:00012)
- Yamazaki, Masao On the microlocal smoothing effect of dispersive partial differential equations. I. Second-order linear equations. 90i:35054
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- Astaburaga, M. A. (with Fernández, Claudio A.; Perla Menzala, Gustavo) Huygens' principle and semilinear wave equations. 90b:35151
- Avellaneda, Marco (with Lin, Fang-Hua) Un théorème de Liouville pour des équations elliptiques à coefficients périodiques. (English summary) [A Liouville theorem for elliptic equations with periodic coefficients] 90j:35072
- Belov, V. V. (with Maslov, V. P.) Quasiclassical path-coherent states of the Dirac operator with Pauli's anomalous interaction. 90g:81113
- Benci, Vieri (with Fortunato, Donato) A remark on the nodal regions of the solutions of some superlinear elliptic equations. 90c:35074
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- Brioli, Marco Wiener estimates for solutions of elliptic equations in nondivergence form. 90d:35069
- Carfora, M. (with Isenberg, James; Jackson, Martin) Convergence of the Ricci flow for metrics with indefinite Ricci curvature. 90m:53054
- Chanillo, Sagun (with Sawyer, E.) Unique continuation for $\Delta + v$ and the C. Fefferman-Phong class. 90f:35050
- Chueshov, I. D. Strong solutions and the attractor of a system of von Kármán equations. (Russian. English summary) 90f:35177
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- Clorancescu, Dolina (with Saint Jean Paulin, Jeannine) Structures très minces en élasticité linéarisée: tours et grillages. (English summary) [Very thin structures in linearized elasticity: towers and grids] 90e:73027
- Correa, Francisco Julio Sobreira de Araújo On the existence and multiplicity of positive solutions of a semilinear elliptic system. 90h:35098
- Costa, Peter J. (with Westlake, Ruth Hampton) An example of computer enhanced analysis. (see 90d:00036)
- Denisov, V. N. Stabilization of means of the solution of the Cauchy problem for hyperbolic equations in a space of negative curvature. 90d:35235
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- Ding, Zhong Hai see Feng, De Xing, 90g:93013
- Feng, De Xing (with Ding, Zhong Hai) A function space related to boundary observation of a partial differential equation. (Chinese. English summary) 90e:93013
- Fernández, Claudio A. see Astaburaga, M. A.; et al., 90b:35151
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- Geymonat, Giuseppe (with Krasucki, François; Marigo, Jean-Jacques) Sur la commutativité des passages à la limite en théorie asymptotique des poutres composites. (English summary) [On the commutativity of limiting processes in the asymptotic theory of composite rods] 90c:73026
- Gromov, Mikhail L. ★ Partial differential relations. 90a:58201
- Guan, Zhi Cheng Existence and nonexistence of global solutions for parabolic equations with nonlinear terms of gradient type. 90d:35141
- Heurteaux, Yanick Inégalités de Harnack à la frontière pour des opérateurs paraboliques. (English summary) [Boundary Harnack inequalities for parabolic operators] 90f:35085
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- Huisken, Gerhard Asymptotic behavior for singularities of the mean curvature flow. 90m:53016
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- Jerison, D. Unique continuation and Carleman-type inequalities. 90c:35058
- Kamynin, V. L. On a passage to the limit in a sequence of parabolic equations. (Russian) (see 90k:00021)
- Kovalyov, M. Resonance-type behaviour in a system of nonlinear wave equations. 90c:35147
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- Larson, J. W. see Tracy, E. R.; et al., (90k:00029)
- LeMesurier, B. (with Papanicolaou, G.; Sulem, C.; Sulem, P.-L.) Local structure of the self-focusing singularity of the nonlinear Schrödinger equation. 90e:35151

- Liang, Jin The spin wave system in ferromagnetic lattices. 90k:82093
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- Longinetti, Marco Some isoperimetric inequalities for the level curves of capacity and Green's functions on convex plane domains. 90j:35063
- Marino, Jean-Jacques see Geymonat, Giuseppe; et al., 90c:73026
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- Müller-Pfeiffer, Erich Über die Existenz von Knotengebieten bei elliptischen Differentialoperatoren. [On the existence of nodal areas for elliptic differential operators] (Not in MR)
- Nasibov, Sh. M. Optimal constants in some Sobolev inequalities and their applications to the nonlinear Schrödinger equation. 90m:35051
- Nazarov, S. A. see Zarin, I. S., 90m:73045
- Osborne, A. R. see Tracy, E. R.; et al., (90k:00029)
- Papanicolaou, G. see LeMesurier, B.; et al., 90c:35151
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- Pupilek, J. Properties of some integrals that are connected with a higher-order partial differential equation. (Russian) 90c:35036
- Rogers, R. C. (with Temple, Blake) A characterization of the weakly continuous polynomials in the method of compensated compactness. 90b:35004
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- Shishkov, A. E. Behavior of generalized solutions of parabolic equations in divergence form in a neighborhood of a boundary point. (Russian) (see 90k:00021)
- Shokhet, B. A. Averaging of periodic structures with one-sided constraints and with friction on the boundaries of the cells. 90g:73024
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- Steinrück, H. Multiple solutions of the steady state semiconductor device equations. (see 90d:65006)
- Sulem, C. see LeMesurier, B.; et al., 90c:35151
- Sulem, P.-L. see LeMesurier, B.; et al., 90c:35151
- Tartar, L. How to describe oscillations of solutions of nonlinear partial differential equations. (see 90a:00027)
- Temple, Blake see Rogers, R. C., 90b:35004
- Tracy, E. R. (with Larson, J. W.; Osborne, A. R.; Bergamasco, L.) On the nonlinear Schrödinger equation as an averaging theory. (see 90k:00029)
- Ts'ao, Lung I. On bounded entire solutions of integro-differential equations. 90b:45016
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- Vaillierot, Pierre-A. Quasiperiodic soliton solutions to nonlinear Klein-Gordon equations on \mathbb{R}^2 . 90m:35134
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- White, Luther Estimation of higher-order damping terms in linear plate models. 90f:35060
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- Rogers, Collin (with Ames, W. F.) ★ Nonlinear boundary value problems in science and engineering. 90b:35001
- Tutschke, Wolfgang ★ Solution of initial value problems in classes of generalized analytic functions. 90b:35006

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- Calogero, F. (with De Lillo, S.) The Burgers equation on the semi-infinite and finite intervals. 90a:35040
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- Galaktionov, V. A. (with Poshakov, S. A.) New exact solutions of parabolic equations with quadratic nonlinearities. (Russian) 90j:35048
- Gantseva, A. K. Oblique derivative boundary conditions and the image method for wedges. 90a:35041
- Gorbach, V. V. see Vorontsov, V. I.; et al., 90d:35046
- Kashcheev, V. N. An "algebraic" method for obtaining solutions of nonlinear equations. (Russian. English summary) 90c:35036
- Kuvshinov, A. P. see Vorontsov, V. I.; et al., 90d:35046
- Nerzhailo, T. G. Representation in explicit form of the fundamental solution of a class of equations of parabolic type. (Russian) (see 90d:34002)
- Panayotounakos, D. E. (with Zisis, Basilios) Closed-form solutions of the nonlinear partial differential equations governing the stress-field in a rigid, perfectly-plastic body. 90i:35055
- Poshakov, S. A. see Galaktionov, V. A., 90j:35048
- Rasulov, M. L. ★ Применение вычитного метода к решению задач дифференциальных уравнений. (Russian) [Application of the residue method to solving problems of differential equations] 90b:35056
- Shanidze, Z. G. Exact solutions of some problems in mechanics. (Russian. English and Georgian summaries) 90b:35042
- Vorontsov, V. I. (with Gorbach, V. V.; Kuvshinov, A. P.) A class of solutions of a parabolic equation that describes limited wave beams. (Russian. English summary) 90d:35046
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- Barannik, A. F. (with Marchenko, V. A.) Exact solutions of the nonlinear Schrödinger equation in the Minkowski space $R_{1,2}$. (Russian. English summary) 90j:35164
- Bergier, P. Zur Darstellung von verallgemeinerten biachsialsymmetrischen Potentialen. [On the representation of generalized biaxially symmetric potentials] 90g:31004
- Bluman, George W. (with Reid, Gregory J.) Sequences of related linear PDEs. 90b:35009
- Chan, W. L. (with Zheng, Yu Kun) Exact solutions of nonlinear evolution equations of the AKNS class. 90g:35134

- (with Li, Kam-Shun) Nonpropagating solitons of the variable coefficient and nonispectral Korteweg-de Vries equation. 90b:35064
- Freeman, Neil C. (with Satsuma, Junkichi) Exact solutions describing an interaction of pulses with compact support in a nonlinear diffusive system. 90g:35137
- Fushchich, V. I. (with Serov, N. I.; Shtelen, V. M.) Some exact solutions of many-dimensional nonlinear d'Alembert, Liouville, eikonal, and Dirac equations. 90c:35139
- (with Serov, N. I.) Conditional invariance and exact solutions of a nonlinear equation of acoustics. (Russian. English summary) 90g:35139
- Howison, S. D. (with King, John Robert) Explicit solutions to six free-boundary problems in fluid flow and diffusion. 90b:35256
- Hoeber, H. A note on the computation of Green functions for sub-Laplacians on Lie algebras of type H . 90c:58177
- Khabirov, S. V. The method of differential substitutions in the solution of boundary value problems. (Russian) 90g:35005
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- Slevutskii, S. L. Some solutions of a nonlinear Galilei-invariant analogue of the Lamé equation. (Russian) 90b:35262
- Tajiri, Masayoshi Similarity solutions of soliton equations. 90j:35180
- Tarzia, D. A. Basic theoretical considerations in the one-dimensional two-phase Stefan problem. (Spanish) 90d:35311
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- Bondarenko, B. A. ★ Базисные системы полиномиальных и квазиполиномиальных решений уравнений в частных производных. (Russian) [Basis systems of polynomial and quasipolynomial solutions of partial differential equations] 90a:35042
- Dzhabirov, D. K. Representation of the manifold of solutions in the form of series for a fourth-order differential equation with a singular line. (Russian. Tajiki summary) 90b:35043
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- Guo, Ben Yu Bergman expansion and its application. 90d:35047
- Haqae, S. M. A. The summation of some infinite series arising out of the solution of a partial differential equation. II. 90j:35049
- The summation of some infinite series arising out of the solution of a partial differential equation. III. 90j:35050
- Korzun, L. G. Representation of solutions of the Kadomtsev-Petviashvili equation by special series. (Russian) 90b:35044
- Radzhahova, L. Representation of solutions of degenerate elliptic systems of equations by generalized power series. (Russian. Tajiki summary) 90c:35037
- Singh, Gauri Shankar (with Singh, Satyendra Narayan) Configurational interference in boundary-value problems governed by the Helmholtz equation. 90c:35038
- Singh, Satyendra Narayan see Singh, Gauri Shankar, 90c:35038

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- Akopyan, A. A. (with Saakyan, A. A.) A system of differential equations that is related to the polynomial class of translates of a box spline. 90k:41016
- Bobala, Eugeniusz On some solution of the diffusion equation. 90d:35126
- Doha, E. H. An accurate solution of parabolic equations by expansion in ultraspherical polynomials. 90j:65141
- Furioli Martinelli, Antonella (with Ricci, Maria Lavinia) Continuation and representation of solutions of a Fuchsian partial differential equation. (Italian summary) 90b:35005
- Gedvilaitė, A. A. (with Kaklauskas, L. L.; Jurgaitis, Donatas) A first-order elliptic system with semiregular degeneration. 90d:35110
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- Kaklauskas, L. L. see Gedvilaitė, A. A.; et al., 90d:35110
- Markett, Clemens Product formulas and convolution structure for Fourier-Bessel series. 90i:33012
- Martin, Clyde Franklin (with Xie, Shishen) Reconstruction of the solution of Laplace's equation from point measurements on the boundary of a disc. 90d:35291
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- Abdushukurov, A. M. An integral representation of solutions of the Moisil-Teodorescu system with singularities in the small terms. (Russian) 90g:35029
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- Antonescu, M. A. Representation of the solution of the wave equation in the form of a path integral. 90a:35044
- Gasyanov, E. A. Application of an integral transformation to the solution of a mixed problem for a nonclassical equation. (Russian) 90g:35030
- Ivashishen, S. D. (with Androsova, L. N.) An integral representation and initial values of solutions of some degenerate parabolic equations. (Russian. English summary) 90b:35045
- Kiselevskii, A. G. see Ulitko, A. F.; et al., 90b:35059
- Kurmushiev, I. The third initial-boundary value problem for a parabolic system in a quadrant of the plane. (Russian. Kazakh summary) 90i:35057

- Mirzoev, A. Kh. Integral representations of solutions for a system of first-order equations of hyperbolic type with a singular line. (Russian. Tajiki summary) 90i:35058
- Radzhahov, N. R. An integral representation for a second-order general linear elliptic equation with a singular line. (Russian. Tajiki summary) 90i:35051
- Explicit representations of solutions of systems of second-order differential equations of elliptic type with a singular line. (Russian. Tajiki summary) 90c:35039
- A new method of representing solutions of systems of second-order differential equations of elliptic type. (Russian. Tajiki summary) 90c:35040
- Shorfi, L. see Ulitko, A. F.; et al., 90i:35059
- Tomantschger, Kurt Walter ★ Solutions of a fourth order partial differential equation in four independent variables. 90b:35048
- On generalized integral operators. 90f:35040
- Ulitko, A. F. (with Vovkodav, I. P.; Kiselevskii, A. G.; Shorfi, L.) The Dirichlet problem for the Helmholtz equation in spherical-conic coordinates. (Russian. English summary) 90i:35059
- Vovkodav, I. P. see Ulitko, A. F.; et al., 90i:35059
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- Aleksandrovich, I. N. see Pakhareva, N. A., 90i:35075
- Bros, J. Holomorphic integral representations for the solutions of the Helmholtz equation. (see 90g:42062)
- (with Omnes, Roland) Holomorphic integral representations for outgoing-waves in \mathbb{R}^n . 90i:35045
- Brown, Russell M. The initial-Neumann problem for the heat equation in Lipschitz cylinders. 90b:35112
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- Demetrashvili, N. G. Approximate solution, by the method of least squares, of the Dirichlet problem for elliptic differential equations, on the basis of I. N. Vekua's integral representations. (Russian) 90c:65142
- Gasyimov, E. A. A mixed problem on the conjugation of parabolic systems of different orders with a reverse time flow. (Russian. English and Azerbaijani summaries) 90b:35117
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- Kvedaras, Bronius Representation of solutions of strongly degenerate elliptic equations with analytic coefficients. 90d:35112
- Omnes, Roland see Bros, J., 90i:35045
- Pakhareva, N. A. (with Aleksandrovich, I. N.) The Dirichlet problem for some equations of elliptic type. (Russian) 90i:35075
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- (with Kolomitseva, E. A.) A smoothing procedure in a system of singularly perturbed equations of parabolic type. 90i:35052
- Danilov, V. G. (with Zhevandrov, P. N.) Maslov's method for constructing combined asymptotics for h -pseudodifferential equations. 90i:35061
- Dudzyani, I. M. (with Tsybmal, Victor) Asymptotic solution of a mixed problem for a third-order equation. (Ukrainian. Russian summary) (Not in MR)
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- van Horssen, W. T. An asymptotic theory for a class of initial-boundary value problems for weakly nonlinear wave equations with an application to a model of the galloping oscillations of overhead transmission lines. 90a:35046
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- Hunter, John K. Strongly nonlinear hyperbolic waves. 90c:35031
- Ilin, A. M. ★ Согласование асимптотических разложений решений краевых задач. (Russian) [Matching of asymptotic expansions of solutions of boundary value problems] 90i:35062
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- Kazakevich, E. I. Asymptotic integration of a parabolic system of equations. (Russian. English and Lithuanian summaries) 90a:35047
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- Nesenenko, G. A. Boundary layer of the heat equation in several variables with nonlinear boundary condition as a power-type function. 90b:35057
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- Sukretnyi, V. I. Asymptotic expansion of the solutions of the third boundary value problem for second-order elliptic equations in punctured domains. (Russian) 90c:35032
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- Tsybmal, Victor An angular boundary layer in mixed singularly perturbed problems for hyperbolic equations. (Ukrainian. Russian summary) (Not in MR)
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- Vakulenko, S. A. A variational principle for nonlinear concentrated waves. (Russian) 90i:35054
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- Bardi, Martino An asymptotic formula for the Green's function of an elliptic operator. 90c:35050
- Buchkuri, T. V. (with Gegelia, T. G.) Asymptotic behavior of solutions of fundamental equations of statics in elasticity theory near isolated singular points and at infinity, and its applications. (Russian) 90b:73005
- Butuzov, V. F. (with Nefedov, N. N.; Polezhaeva, E. V.) Asymptotic solutions of linearized problems of the natural and forced resonance oscillations of a medium with small viscosity. (Russian) 90m:35149
- see also Vasil'eva, A. B., 90b:35024
- Danilov, V. G. Well-posedness of h -pseudodifferential equations in the class of asymptotics of exponential type. (Russian) 90c:35211
- (with Rashkovskii, O. B.) Asymptotic solution of a boundary value problem for a nonlinear nonstationary equation of isothermic filtration of a gas in an inhomogeneous anisotropic porous medium. 90b:76032
- Global formulas for solutions of quasilinear parabolic equations with a small parameter and ill-posedness. (Russian) 90i:35115
- Dobrokhotov, S. Yu. Resonance correction of an adiabatically perturbed finite-gap almost periodic solution of the Korteweg-de Vries equation. (Russian) 90b:35035
- El, Shin-Ichiro Two-timing methods with applications to heterogeneous reaction-diffusion systems. 90b:35126
- Geer, James F. (with Andersen, Carl M.) A hybrid perturbation Galerkin technique with applications to slender body theory. 90b:65232
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- Guenouni, Tajeddine Sur une méthode de calcul de structures soumises à des chargements cycliques: l'homogénéisation en temps. (English summary) [A method for calculating structures subject to cyclic loads: time homogenization] 90c:73045
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- Herwig, A. Elliptische Randwertprobleme zweiter Ordnung in Gebieten mit einer Fehlstelle. (English and Russian summaries) [Elliptic boundary value problems of second order in domains with one hole] 90m:35025
- Huber, Daniel (with Heller, Eric J.; Littlejohn, Robert G.) Generalized Gaussian wave packet dynamics, Schrödinger equation, and stationary phase approximation. 90a:81027
- Joseph, K. T. Boundary layers in approximate solutions. 90g:35096
- Kalyakin, L. A. Local resonance in a weakly nonlinear problem. (Russian) 90c:35177
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- Karpeshkin, V. N. Refined uniform estimates for oscillatory integrals and areas. 90b:58261
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- Kozlov, Vladimir Arkad'evich Asymptotics of the Green function and Poisson kernels of a mixed parabolic problem in a cone. I. (Russian. English and German summaries) 90i:35122
- Krylov, A. V. A method of investigating weakly nonlinear interaction between one-dimensional waves. 90c:35137
- Kvedaras, Bronius Representation of solutions of strongly degenerate elliptic equations with analytic coefficients. 90d:35112
- Larchenko, V. V. Bifurcationally ill-posed problems and deterministic phenomena under conditions of singular perturbation. 90b:35019
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- Staras, Artinas Asymptotic solution of boundary value problems for weakly perturbed wave equations. **90f:76054**
- Szmolyan, Peter A singular perturbation analysis of the transient semiconductor device equations. **90h:35027**
- Vasil'eva, A. B. (with Butuzov, V. F.) Boundary layer methods in singularly perturbed partial differential problems. (Russian) **90h:35024**
- (with Volkov, V. T.) Asymptotics of periodic solutions of some systems with small diffusion. (Russian) **90m:35024**
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- Ad'ysior, M. M. Self-similar solutions of a nonlinear equation of parabolic type. (Russian) **90h:35046**
- Barański, Feliks (with Musialek, Jan) The three-parabolic problem for half-space with boundary conditions of Lauricella type. **90d:35050**
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- Domański, Zdzisław (with Rojek, Z.) Application of Fisher-Riesz-Kupradze method to solving the second Fourier problem. **90k:35058**
- Feng, Chao Kang The general similarity solution of Laplace's equation with applications to boundary value problems. **90k:35059**
- Ghosh, Bandana Application of generalised Bessel's partial differential operators to partial differential equations. (Not in MR)
- Kubaszewski, Władysław A limit problem for the equation $D_t P u = f$ in the strip. (Polish summary) **90i:35063**
- Lepin, L. A. Uniqueness of the monotone solution of a self-similar equation in the theory of nonlinear heat conduction. (Russian) **90h:35047**
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- Popolek, J. Properties of some integrals that are connected with a higher-order partial differential equation. (Russian) **90e:35036**
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- Tagilov, D. M. A method for solving a class of homogeneous partial differential equations. (Russian) **90m:35042**
- Varley, Eric (with Seymour, Brian) A method for obtaining exact solutions to partial differential equations with variable coefficients. **90m:35043**
- Items with secondary classifications in 35C99**
- Adomian, George A. (with Rach, R.; Elrod, M.) On the solution of partial differential equations with specified boundary conditions. **90f:35004**
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- Cherenkov, V. S. Application of functions of operators in the solution of boundary value problems for the Helmholtz equation. **90m:35047**
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- Jaulent, Marcel (with Manna, Miguel A.; Martinez Alonso, Luis) Multiseries Lie groups and symplectic modules for characterizing and solving integrable models. **90h:58041**
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- Litinsky, Eugene Polynomial integrals of evolution equations. **90a:58073**
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- Xiong, Xi Jin Hypercomplex functionals. III. Uniqueness theorem and a class of boundary value problems of a new type. (Chinese. English summary) **90h:30058a**
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- Oberguggenberger, Michael Hyperbolic systems with discontinuous coefficients: examples. **90h:35146**
- Popivanov, N. I. Weak and strong solutions of boundary value problems. (Russian. English summary) **90h:35052**
- Zhitarsku, N. V. L_2 -theory of generalized solutions of linear parabolic boundary value problems and some of its applications. (Russian) (see **90k:00021**)

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- Ivakhnenko, L. Ya. (with Lavrenyuk, S. P.) Existence of a generalized solution of a mixed problem for equations of plate-oscillation type. (Ukrainian. Russian summary) (Not in MR)
- Kosinski, Witold Admissibility and uniqueness of weak solutions to hyperbolic systems of balance laws. 90b:35064
- Lavrenyuk, S. P. Existence of a generalized solution of a mixed problem for a fourth-order equation. (Ukrainian. Russian summary) (Not in MR)
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- Akopyan, G. S. (with Ahrapetyan, S. A.) On the well-posedness of a nonclassical mixed problem for systems of S. L. Sobolev type. (Russian. Armenian summary) 90c:35111
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- Calderón, Calixto P. Existence of weak solutions for the Navier-Stokes equations with initial data in L^p . 90b:35199
- Addendum to the paper: "Existence of weak solutions for the Navier-Stokes equations with initial data in L^p ". 90b:35200
- Cannon, John R. (with Lin, Yanping) Classical and weak solutions for one-dimensional pseudo-parabolic equations with typical boundary data. 90c:35129
- Chen, Shi Ming Existence and uniqueness of distribution solutions to the Dirichlet problem for higher-order elliptic equations. (Chinese. English summary) (Not in MR)
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- Eppler, Karsten On the existence of generalized solutions of semilinear parabolic differential equations with noncontinuous boundary data. (German summary) 90c:35130
- Faminskil, A. V. A mixed problem in a semigroup for the Korteweg-de Vries equation and its generalizations. (Russian) 90c:35172
- Freise, Jens Remarks on diagonal elliptic systems. 90a:35083
- Gassanova, I. A. The Dirichlet problem for quasilinear parabolic second-order equations in domains of paraboloid type. (Russian. English and Azerbaijani summaries) 90c:35122
- Grigolyuk, É. I. (with Vlasov, V. F.; Yurkevich, A. A.) Solvability of boundary value problems of the equilibrium state of three-layer shells with a rigid core that transfers lateral shear. 90g:73089
- Gupalo, G.-V. S. (with Lopushanskaya, G. P.) The Dirichlet problem for a second-order inhomogeneous differential equation of elliptic type in a space of generalized functions. (Ukrainian. Russian summary) (Not in MR)
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- Kamont, Zdzisław (with Turo, Jan) Generalized solutions of boundary value problems for quasilinear systems with retarded argument. (Serbo-Croatian summary) 90c:35192
- Kura, Takeshi The weak supersolution-subsolution method for second order quasilinear elliptic equations. 90g:35057
- Landes, Rüdiger On the existence of weak solutions of perturbed systems with critical growth. 90a:35092
- Lia, Yanping see Cannon, John R., 90c:35129
- Lopushanskaya, G. P. Solution of the second boundary value problem for a second-order parabolic equation in a space of generalized functions. (Ukrainian. Russian summary) (Not in MR)
- see also Gupalo, G.-V. S., (Not in MR)
- Morimoto, Hiroko On the existence of weak solutions of equation of natural convection. 90c:35220
- Neklyudov, A. V. Solutions of second-order elliptic equations in nondivergence form that are defined in an unbounded domain. (Russian) 90d:35073
- Oberguggenberger, Michael Hyperbolic systems with discontinuous coefficients: generalized solutions and a transmission problem in acoustics. 90c:35133
- Shishkov, A. E. see Steptsova, I. P., 90c:35109
- Steptsova, I. P. (with Shishkov, A. E.) On the existence of generalized solutions, growing at infinity, of boundary value problems for higher-order linear parabolic equations. 90c:35109
- Sun, Yu Shan Weak solutions of the homogeneous boundary value problem for a ferromagnetic chain. (Chinese. English summary) 90c:35159
- Suzuki, Kazumasa An example of degenerate linear elliptic equations of second order. 90d:35115
- Szepešy, Anders An existence result for scalar conservation laws using measure valued solutions. 90j:35137
- Tahara, Hidetoshi Solvability in distributions for a class of singular differential operators. II. 90b:35001
- Turo, Jan see Kamont, Zdzisław, 90c:35192
- Vlasov, V. F. see Grigolyuk, É. I.; et al., 90g:73089
- Yong, Jiong Min Weak solutions of second order parabolic equations in noncylindrical domains. 90g:35068
- Yurkevich, A. A. see Grigolyuk, É. I.; et al., 90g:73089
- Zaluga Uribe, Mario Existence of multiple solutions of an elliptic problem with linear part in resonance with the first eigenvalue. (Spanish) 90m:35074

35D10 Regularity of generalized solutions

- Dancer, E. N. (with Sweers, G.) On the existence of a maximal weak solution for a semilinear elliptic equation. 90b:35049
- Jian, Hual Yu Regularity of weak solutions for a class of higher-order nonlinear elliptic systems. (Chinese. English summary) 90a:35048
- John, Oldrich (with Stará, Jana) Smoothness of weak solutions of quasilinear parabolic systems. (Russian) (see 90b:00021)
- (with Malý, Jan; Stará, Jana) Nowhere continuous solutions to elliptic systems. 90b:35050
- Korol'ev, Aleksei Gennadiyevich On the boundedness of generalized solutions of elliptic differential equations with nonpower nonlinearities. 90j:35056

- Leonetti, Francesco On the Hölder-continuity of α -minima. (Italian summary) 90j:35057
- Liang, Xi Ting Boundedness and integrability properties of generalized solutions of elliptic equations. (Chinese. English summary) 90b:35048
- Lu, Wen Duan Global boundedness of weak solutions to second-order quasilinear elliptic equations in divergence form. (Chinese) 90c:35042
- Malý, Jan see John, Oldrich; et al., 90b:35050
- Saheb, É. K. Coincidence of the classical and the generalized solutions of a mixed problem for a parabolic equation. 90j:35058
- Stará, Jana see John, Oldrich; et al., 90b:35050 and 90b:00021
- Sweers, G. see Dancer, E. N., 90b:35049
- Yang, Zhi Huo Two estimates for weak solutions to second-order nonlinear elliptic equations. (Chinese. English summary) 90b:35060
- Ziemer, William P. Regularity of weak solutions of parabolic variational inequalities. 90g:35031

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- Berhanu, S. Propagation of hypo-analyticity along bicharacteristics. 90b:35009
- Dange, Monique Stationary Stokes and Navier-Stokes systems on two- or three-dimensional domains with corners. I. Linearized equations. 90b:35191
- Derridj, Makhlouf Sur l'existence de solutions $C^{1,1/2}$, $C^{1,1}$ et C^2 , radiales pour des équations de type Monge-Ampère complexe dans la boule unité de \mathbb{C}^n . [Existence of radial $C^{1,1/2}$, $C^{1,1}$ and C^2 solutions for complex Monge-Ampère equations in the unit ball in \mathbb{C}^n] 90b:32034
- Faminskil, A. V. The Cauchy problem for the Korteweg-de Vries equation and its generalizations. (Russian. English summary) 90c:35173
- Gallouët, Thierry (with Mignot, Fulbert; Puel, Jean-Pierre) Quelques résultats sur le problème $-\Delta u = \lambda e^u$. (English summary) [A few results on the equation $-\Delta u = \lambda e^u$] 90c:35088
- Gröger, Konrad A $W^{1,p}$ -estimate for solutions to mixed boundary value problems for second order elliptic differential equations. 90d:35035
- Mignot, Fulbert see Gallouët, Thierry; et al., 90c:35088
- Mikhailova, T. V. Smoothness of generalized solutions of the Dirichlet problem for a polyharmonic equation in plane domains with a nonsmooth boundary. 90d:35080
- Puel, Jean-Pierre see Gallouët, Thierry; et al., 90c:35088
- Rakotoson, J.-M. (with Ziemer, William P.) Local behavior of solutions of quasilinear elliptic equations with general structure. 90j:35082
- Rauch, Jeffrey (with Reed, Michael C.) Bounded, stratified and striated solutions of hyperbolic systems. 90f:35122
- Reed, Michael C. see Rauch, Jeffrey, 90f:35122
- Xu, Chao Jiang (with Zuily, C.) Smoothness up to the boundary for solutions of the nonlinear and nonelliptic Dirichlet problem. 90c:35034
- Ziemer, William P. see Rakotoson, J.-M., 90j:35082
- Zuily, C. see Xu, Chao Jiang, 90c:35034

35D99 None of the above, but in this section

- Liang, Xi Ting Improved estimates of the maximum modulus of generalized solutions to linear second-order elliptic and parabolic equations. (Chinese. English summary) 90b:35061
- Zhitarskii, N. V. Boundary values of weak generalized solutions of systems of parabolic equations. (Russian) 90d:35052

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- Antontsev, S. N. (with Diaz Diaz, Jesús Ildefonso) New results on the localization of solutions of nonlinear elliptic and parabolic equations that are obtained by the energy method. 90d:35068
- Diaz Diaz, Jesús Ildefonso see Antontsev, S. N., 90d:35068
- Kosinski, Witold On the concept of weak solutions in the BV-space. 90f:35126
- Mochizuki, Kiyoshi (with Suzuki, Ryuichi) Asymptotic behavior for weak solutions of a porous media equation. 90b:35035
- Suzuki, Ryuichi see Mochizuki, Kiyoshi, 90b:35035

35Exx Equations and systems with constant coefficients [see also 35N05]

35E05 Fundamental solutions

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- Sidorowicz, Józef On the fundamental solution of a parabolic equation with small parameters. (Russian) 90c:35100
- Trione, Susana Elena On Marcel Riesz's ultrahyperbolic kernel. 90a:35159

35E10 Convexity properties

- Tintarev, Kyrill On the geometry of P -convex sets for operators of real principal type. 90d:35053

35E15 Initial value problems

- Wang, Wei Ke Stability estimates for the Cauchy problem for linear partial differential equations with constant coefficients. (Chinese) 90b:35065

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- Calogero, F. (with De Lillo, S.) Cauchy problems on the semiline and on a finite interval for the Eckhaus equation. 90b:35201
- De Lillo, S. see Calogero, F., 90b:35201
- Napalkov, V. V. The Cauchy problem for convolution operators. (Russian) 90c:46051

Shapiro, Harold S. An algebraic theorem of E. Fischer, and the holomorphic Goursat problem. 90m:35008

35E20 General theory

- Akopyan, A. A. (with Saakyan, A. A.) A class of systems of partial differential equations. (Russian) 90j:35059
- Charrière, H. Existence de bases opérateurs pour l'espace des solutions des équations aux dérivées partielles linéaires à coefficients constants. II. [Existence of operator bases for the space of solutions of linear partial differential equations with constant coefficients. II] 90h:35049
- Gadetskaya, S. V. Well-posed multipoint problems in a strip for differential equations with loads. (Russian) 90j:35032
- Jerison, D. An elementary approach to local solvability for constant coefficient partial differential equations. 90k:35062
- Krone, Jörg Partial differential operators without right inverse on the tempered distributions. 90j:35066
- Mustafayev, L. F. The behavior as $t \rightarrow +\infty$ of the solution of a mixed problem for higher-order equations with constant coefficients in a quarter space that are well posed in the sense of I. G. Petrovskii. (Russian. English and Azerbaijani summaries) 90h:35051
- Myslivets, S. G. see Znamenskii, S. V., 90c:35038
- Saakyan, A. A. see Akopyan, A. A., 90j:35059
- Tervo, J. On algebraic characterization of coercive linear partial differential operators with constant coefficients. 90c:35037
- Torunyan, N. E. Well-posed boundary value problems for a system of partial differential equations in a half-space in a class of functions with at most polynomial growth. 90f:35041
- Znamenskii, S. V. (with Myslivets, S. G.) A criterion for local solvability of partial differential equations with constant coefficients. 90c:35038

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- Berndtsson, Bo (with Passare, Mikael) Integral formulas and an explicit version of the fundamental principle. 90i:32006
- Langenbruch, Michael Complemented kernels of partial differential operators in weighted spaces of (generalized) functions. 90f:46063
- Laurent, Yves Probleme de Cauchy pour les hyperfonctions à croissance. [Cauchy problem for increasing hyperfunctions] 90m:58197
- Liang, Yuan Di Principal operators and principal normal operators of degree K . (Chinese. English summary) 90i:35011
- Malamud, M. M. A priori estimates for differential operators in the uniform norm. (Russian) 90g:35023
- Mukhamadiev, E. On the theory of differential equations in a space of bounded generalized functions. (Russian. Tajiki summary) 90m:46066
- Pahk, Dae Hyeon On the Gevrey regularity of hypoelliptic boundary value problems. 90k:35054
- Pap, Endre (with Takaci, Djurdjica) Estimations for the solutions of operator linear differential equations. 90a:35003
- Passare, Mikael see Berndtsson, Bo, 90i:32006
- Takaci, Djurdjica see Pap, Endre, 90a:35003
- Tarkhanov, N. N. A Laurent expansion and local properties for solving elliptic systems. 90d:35082
- Timoshin, O. A. Best approximation of partial differential operators. 90i:35016

35Fxx General first-order equations and systems

35F05 Linear equations and systems, general

- Kim, Jongsik (with Suk, Yong Jing) Reducibility of a complex vector field to a Mizohata type operator. 90c:35043
- Suk, Yong Jing see Kim, Jongsik, 90c:35043
- Items with secondary classifications in 35F05
- Lin, Xiao-Biao see Neves, Aloisio Freiria, 90d:47051
- Neves, Aloisio Freiria (with Lin, Xiao-Biao) A multiplicity theorem for hyperbolic systems. 90d:47051
- Szék, Á. An application of an implicit function theorem to a partial differential equation. 90c:35276

35F10 Initial value problems for linear equations and systems

- Items with secondary classifications in 35F10
- Tutschke, Wolfgang Contraction-mapping principles for initial value problems with generalized analytic initial functions. 90k:35007

35F15 Boundary value problems for linear equations and systems

- Popivanov, N. I. Weak and strong solutions of boundary value problems. (Russian. English summary) 90h:35052
- Items with secondary classifications in 35F15
- Beirão da Veiga, H. On a linear nonelliptic system concerning the dynamic of stationary motions. (Italian summary) 90d:35237
- Existence results in Sobolev spaces for a stationary transport equation. 90d:35238
- Kato's perturbation theory and well-posedness for the Euler equations in bounded domains. 90d:35239
- Boundary-value problems for a class of first order partial differential equations in Sobolev spaces and applications to the Euler flow. 90d:35240

- Cheng, Jin² On Riemann-Hilbert boundary value problems for complex overdetermined partial differential equations of first order. 90i:35193
- Samsoniya, Z. V. On quasiconformal mapping of simply connected domains. (Russian) 90c:30026

35F20 Nonlinear equations and systems, general

- Bengel, Gunter Linearization and singular partial differential equations. 90j:35061
- Cannarsa, P. (with Sonar, H. Mete) Generalized one-sided estimates for solutions of Hamilton-Jacobi equations and applications. 90d:35054
- Chebotaev, A. M. see Konstantinov, A. A.; et al., 90h:35053
- Drăghicescu, I. C. On the transformation of the first order quasilinear equations by a change of variables and function. 90g:35033
- Karabaliyev, R. K. (with Tazhimuratov, I.) Application of the Poincaré method to a system of first-order partial differential equations. (Russian) 90h:35050
- Konstantinov, A. A. (with Maslov, V. P.; Chebotarev, A. M.) Drift of boundary conditions for partial differential equations. 90h:35053
- Maslov, V. P. see Konstantinov, A. A.; et al., 90h:35053
- Pierre-Loti-Vland, Daniel Dynamique de population et équation d'Hamilton-Jacobi. (English summary) [Population dynamics and the Hamilton-Jacobi equation] 90c:35044
- Sonar, H. Mete see Cannarsa, P., 90d:35054
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- Bagrov, V. G. (with Obukhov, V. V.) Complexification of the method of complete separation of variables in the Hamilton-Jacobi equation. 90c:78001
- Barles, G. Regularity results for first order Hamilton-Jacobi equations. 90i:35051
- Calogero, F. (with De Lillo, S.) Cauchy problems on the semiline and on a finite interval for the Eckhaus equation. 90b:35201
- Capuzzo-Dolcetta, I. (with Lions, P.-L.) Hamilton-Jacobi equations with state constraints. 90g:49021
- Constantin, P. (with Foias, Ciprian; Gibbon, J. D.) Finite-dimensional attractor for the laser equations. 90h:35034
- Costa, Peter J. (with Westlake, Ruth Hampton) An example of computer enhanced analysis. (see 90d:00036)
- (Dacorogna, Bernard) see Li, Cai Zhong, 90g:49010
- De Lillo, S. see Calogero, F., 90b:35201
- Foias, Ciprian see Constantin, P.; et al., 90h:35034
- Frankowska, Halina Optimal trajectories associated with a solution of the contingent Hamilton-Jacobi equation. 90h:49043
- Hamilton-Jacobi equations: viscosity solutions and generalized gradients. 90f:35018
- Gibbon, J. D. see Constantin, P.; et al., 90h:35034
- Ivanov, Valentin Konstantinovich Maslov semirings and linearization of differential equations. (Russian) 90g:12009
- Kolokol'tsov, V. N. (with Maslov, V. P.) Idempotent analysis as a technique of the theory of control and optimal synthesis. I. 90i:49033
- Lenhart, S. M. Viscosity solutions associated with impulse control problems for piecewise-deterministic processes. 90h:49042
- Li, Cai Zhong (with Mu, Li Bin) Erratum: *Weak continuity and weak lower semicontinuity of nonlinear functionals* [Lecture Notes in Math., 922, Springer, Berlin, 1982; MR 84f:49020] by B. Dacorogna. (Chinese. English summary) 90g:49010
- Lions, P.-L. see Capuzzo-Dolcetta, I., 90g:49021
- Maslov, V. P. see Kolokol'tsov, V. N., 90i:49033
- Mu, Li Bin see Li, Cai Zhong, 90g:49010
- Obukhov, V. V. see Bagrov, V. G., 90c:78001
- Rozeyev, I. (with Subbotin, A. I.) Semicontinuous solutions of Hamilton-Jacobi equations. 90c:90259
- Sartabanov, Zh. A method for studying periodic solutions of partial differential equations of a special type. (Russian. Kazakh summary) 90f:35014
- Subbotin, A. I. see Rozeyev, I., 90c:90259
- Ueno, Kazushige On pseudoelliptic systems of first order differential equations. 90a:58204
- Westlake, Ruth Hampton see Costa, Peter J., (90d:00036)

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- Gil'derman, Yu. I. (with Sorokina, E. M.) A first-order piecewise-affine differential equation. 90h:35051
- Gudynas, Gintautas The Cauchy problem for the Hamilton-Jacobi equation with a discontinuous initial function. (Russian. English and Lithuanian summaries) 90b:35052
- Imanaliyev, M. I. (with Ved', Yu. A.) A first-order partial differential equation with an integral coefficient. 90i:35066
- Li, Da Qian see Tsuji, Mikio, 90k:35063
- Sorokina, E. M. see Gil'derman, Yu. I., 90h:35051
- Tsuji, Mikio (with Li, Da Qian) Remarks on characteristics of partial differential equations of first order. 90k:35063
- Ved', Yu. A. see Imanaliyev, M. I., 90i:35066

Items with secondary classifications in 35F25

- Crandall, Michael G. (with Lions, P.-L.; Souganidis, P. E.) Maximal solutions and universal bounds for some partial differential equations of evolution. 90a:35125
- Lions, P.-L. see Crandall, Michael G.; et al., 90a:35125
- Rudinicki, Ryszard Strong ergodic properties of a first-order partial differential equation. 90a:58097
- Souganidis, P. E. see Crandall, Michael G.; et al., 90a:35125

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- Barles, G. (with Perthame, B.) Comparison principle for Dirichlet-type Hamilton-Jacobi equations and singular perturbations of degenerated elliptic equations. 90m:35017
- Colton, David (with Monk, Peter) Projection theorems for far field patterns and the inverse scattering problem. 90i:65225
- Evans, L. C. (with James, M. R.) The Hamilton-Jacobi-Bellman equation for time-optimal control. 90j:49020
- James, M. R. see Evans, L. C., 90j:49020
- Kamont, Zdzisław (with Turo, Jan) Generalized solutions of boundary value problems for quasilinear systems with retarded argument. (Serbo-Croatian summary) 90c:35192
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35F99 None of the above, but in this section

- Lions, Jacques-Louis Sur les sentinelles des systèmes distribués. Le cas des conditions initiales incomplètes. (English summary) [On the sentinels of distributed systems. The case in which initial conditions are incomplete] 90b:35053

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- Cianci, Roberto Superspace first-order partial differential equations through the Cartan-Kähler integration theorem. 90c:58165
- Davidson, M. G. (with Stanke, R. J.) Gradient-type differential operators and unitary highest weight representations of $SU(p, q)$. 90c:22025
- Perthame, B. Perturbed dynamical systems with an attracting singularity and weak viscosity limits in Hamilton-Jacobi equations. 90c:35014
- Shagrin, S. M. A combinatorial boundary value problem, and difference equations. (Russian) 90m:65217
- Stanke, R. J. see Davidson, M. G., 90c:22025

35Gxx General higher-order equations and systems

35G05 Linear equations and systems, general

- Mamontov, E. V. An equilibrium solution of a system of nonautonomous linear partial differential equations. (Russian) (see 90j:00013)
- Oganesyan, G. R. Weighted Cauchy and Dirichlet problems for some partial differential equations that are singular on the boundary. 90c:35039

Items with secondary classifications in 35G05

- Cao, Ce Wen Traces of differential operators. (Chinese. English summary) 90f:47065

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- Khalgui Ouassies, Hella Unité du problème de Cauchy pour des opérateurs à caractéristiques non régulières. (English summary) [Uniqueness of the Cauchy problem for operators with nonregular characteristics] 90d:35055
- Radzhabov, È. L. The Cauchy problem for a higher-order equation with a generalized Bessel differential operator. (Russian. Tajiki summary) 90a:35049

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- Sadamatsu, Takashi On a necessary condition for the wellposedness of the Cauchy problem for evolution equations. 90i:35006

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- Abdrakhmanov, A. M. The Dirichlet problem for a second-order multidimensional system with variable coefficients. (Russian) 90b:35054
- Baikuziev, K. B. Existence of a classical solution of a mixed problem for systems of degenerate equations. (Russian) 90b:35054
- Chen, Hua Boundary value problems for a class of linear partial differential equations with Fuchsian operator coefficients. (Chinese. English summary) 90b:35055
- Chen, Shui Li On the solutions to boundary value problems for some classes of (systems of) n -dimensional linear partial differential equations. (Chinese) 90b:35055
- Chuesheva, N. A. The first boundary value problem for a class of nonclassical equations in mathematical physics. (Russian) 90i:35067
- Demidenko, G. V. Correct solvability of boundary value problems in a half-space for quasi-elliptic equations. 90b:35056
- El-Haji, Adnan Atef Fourth order boundary value problems. 90c:35045
- Malovichko, V. A. A nonlocal boundary value problem for a system of fourth-order differential equations. (Russian. English summary) 90a:35050
- Nazarov, S. A. Boundary value problems for single-characteristic equations. I. The characteristic is transversal to the boundary. (Russian. English and Lithuanian summaries) 90g:35034
- Tsybikov, B. N. A nonlocal problem for third-order equations. (Russian) 90b:35056

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- Chen, Shu Xing Necessary conditions on local solvability of boundary value problems for linear PDE. 90b:35002
- Kapanadze, D. V. A problem with an oblique derivative. (Russian) 90c:35052
- Korzhakov, A. I. Formulation and solvability of a boundary value problem for a class of equations that are not solved with respect to the time derivative. (Russian) 90f:35020
- Krein, S. G. (with L'vin, S. Ya.) Underdetermined boundary value problems. (Russian) 90a:35171
- L'vin, S. Ya. see Krein, S. G., 90a:35171
- Perukhrest, V. I. Solution of the second boundary value problem for a second-order nonselfadjoint equation. (Russian) 90d:35045

- Skubachevskii, A. L. Eigenvalues and eigenfunctions of some nonlocal boundary value problems. 90c:35155

- Walczak, Stanisław Absolutely continuous functions of several variables and their application to differential equations. (Russian summary) 90d:26026

- Zhou, Xin The Riemann-Hilbert problem and inverse scattering. 90i:34046

35G20 Nonlinear equations and systems, general

- Capel, H. W. see van der Linden, Johannes; et al., 90k:35065
- Chan, W. L. (with Li, Kam-Shun) Nonpropagating solitons of the variable coefficient and nonispectral Korteweg-de Vries equation. 90k:35064
- Chemin, Jean-Yves Régularité de la solution d'un problème de Cauchy fortement non linéaire à données singulières en un point. (English summary) [Regularity of the solution of a strongly nonlinear Cauchy problem with singular data at a point] 90i:35068
- Gvazava, D. K. A general integral of a class of nonlinear equations and its applications. (Russian) 90c:35046
- Li, Kam-Shun see Chan, W. L., 90k:35064
- van der Linden, Johannes (with Capel, H. W.; Nijhoff, Frank) Linear integral equations and multicomponent nonlinear integrable systems. II. 90k:35065
- Madi, Nour Said (with Yoshino, Masafumi) Unique solvability of nonlinear Fuchsian equations. 90j:35062
- Metzen, Gerhard A semilinear problem with jumping nonlinearities in unbounded domains. 90g:35035
- Nijhoff, Frank see van der Linden, Johannes; et al., 90k:35065
- Yoshino, Masafumi see Madi, Nour Said, 90j:35062
- Zubov, V. I. Systems of differential equations with two singular points of regular type. 90i:35069

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- Breuer, Shlomo (with Roseman, Joseph J.) On spatial energy decay for quasilinear boundary value problems in cone-like and exterior domains. 90d:35026
- (Dacorogna, Bernard) see Li, Cai Zhong, 90g:49010
- Ding, Sun Hong (with Mawhin, J.) The range of some monotone gradient perturbations of selfadjoint operators with finite-dimensional kernel having the unique continuation property. 90k:47126
- Kashcheev, V. N. An "algebraic" method for obtaining solutions of nonlinear equations. (Russian. English summary) 90c:35036
- Kutev, Nikolai D. see Popivanov, Pet'r R., 90i:35005
- Levendorskii, S. Z. Asymptotic behavior of the discrete spectrum of the Dirac operator with decreasing potential. 90b:35179
- Li, Cai Zhong (with Mu, Li Bin) Erratum: *Weak continuity and weak lower semicontinuity of nonlinear functionals* [Lecture Notes in Math., 922, Springer, Berlin, 1982; MR 84f:49020] by B. Dacorogna. (Chinese. English summary) 90g:49010
- Mawhin, J. see Ding, Sun Hong, 90k:47126
- Mu, Li Bin see Li, Cai Zhong, 90g:49010
- Popivanov, Pet'r R. (with Kutev, Nikolai D.) On the existence, uniqueness and smoothness of the solutions of some classes of nonlinear partial differential equations. 90i:35005
- Rabele, Mauro Luiz A characterization of differential equations of type $u_{x_i} = F(u, \partial u / \partial x_1, \dots, \partial^k u / \partial x^k)$, which describe pseudospherical surface. 90i:58201
- Roseman, Joseph J. see Breuer, Shlomo, 90d:35026

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- Bubnov, B. A. Necessary and sufficient conditions for the solvability of the Cauchy problem for some classes of nonlinear evolution equations. 90d:35056
- Faminskii, A. V. The Cauchy problem for quasilinear equations of odd order. (Russian) 90k:35066
- Popielek, J. The Cauchy problem for a higher-order partial differential equation. (Russian) 90c:35040

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- Artyushin, A. N. An existence theorem for a third-order equation. (Russian) 90g:35036
- Cheng, Jin² Existence of solutions to initial-boundary value problems for a class of nonlinear third-order partial differential equations. (Chinese. English summary) 90b:35057
- Il'ina, S. M. Solution of a nonlinear boundary value problem. (Russian) 90d:35057
- Korman, Phillip On existence of solutions for noncoercive problems. 90g:35037
- Laptev, G. I. Solvability of initial-boundary value problems for third-order quasilinear partial differential equations with one space variable. 90a:35051
- Smoller, J. A. (with Wasserman, Arthur G.) Asymmetric solutions of problems with symmetry. 90j:35063
- Sun, Jin Hai A uniqueness theorem for solutions of a class of quasilinear boundary value problems. (Chinese. English summary) 90a:35052
- Warnecke, Gerald The homogenous Dirichlet problem for nonelliptic partial differential equations with strong nonlinearities. 90i:35070
- Wasserman, Arthur G. see Smoller, J. A., 90j:35063

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- Komkov, V. Properties of the sensitivity functions. I. Differentiable functions. 90e:73091

35G99 None of the above, but in this section

- Roşculeţ, M. N. Analyticity with respect to a differential operator E . II. Solutions of the iterative equation $E^{(n)}(\Phi) = 0$. (Romanian. French summary) 90k:35067

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- Kawohl, Bernhard On the convexity of level sets for elliptic and parabolic exterior boundary value problems. 90k:35084
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- Makhortov, S. D. Solvability of some degenerate boundary value problems for elliptic equations. (Russian) (see 90a:00007)
- Martynenko, Mariya D. (with Martynenko, Mikhailo D.) A boundary value problem for a nonstandard elliptic equation. (Ukrainian. Russian summary) (Not in MR)
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- Kostenko, V. G. (with Korkuna, M. D.) Reduction of a boundary value problem to a system of regular integral equations. (Ukrainian. Russian summary) (Not in MR)
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- De Giorgi, E. (with Carriero, M.; Leaci, A.) Existence theorem for a minimum problem with free discontinuity set. 90j:49002
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- David, Guy René. Solutions de l'équation de Beltrami avec $\|u\|_{\infty} = 1$. [Solutions of the Beltrami equation with $\|u\|_{\infty} = 1$] 90d:30058
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- On Fourier's first quasi-linear and linear iterated problems and on Fourier's second linear iterated problem in the $(n+1)$ -dimensional time-space cube. 90f:35120
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- Choba, A. V. see Ziskin, V. I.; et al., (90d:00017)
- Davies, E. B. see van den Berg, Michiel, 90j:35102
- Eidelman, S. D. see Kushits'kii, Ya. S., 90d:35121 and 90f:35084
- Gaisinskii, M. D. Application of Wiener integrals to a theorem on the existence and uniqueness of the solution of the heat equation with a singular source function. (Russian) 90k:35113
- Ishankulov, T. I. (with Makhmudov, O. I.) On the Cauchy problem for the heat equation. (Russian) (see 90d:00029)
- Kaufman, Robert P. (with Wu, Jang-Mei) Dirichlet problem of heat equation for C^2 domains. 90j:35111
- Kawai, Takahiro (with Matsuzawa, Tadato) On the boundary value of a solution of the heat equation. 90j:35104
- Kazi, M. H. see Chaudhry, Muhammad Aslam, 90b:35109
- Kim, E. I. (with Kolyshov, U. K.) The heat equation with a discontinuous coefficient in a domain that is degenerate at the initial moment of time. (Russian) (see 90m:00032)
- (with Kolyshov, U. K.) A mixed boundary value problem for the heat equation in a domain that degenerates at the initial moment of time. (Russian) 90f:35083
- Kolyshov, U. K. see Kim, E. I., 90f:35083 and (90m:00032)
- Kushits'kii, Ya. S. (with Eidelman, S. D.) A multi-dimensional variant of a problem of A. N. Tikhonov. 90d:35121
- (with Eidelman, S. D.) Stabilization of the solutions of boundary value problems for the multidimensional heat equation. 90f:35084
- Levitska, S. M. The third three-dimensional problem for the heat equation. (Ukrainian. Russian summary) (Not in MR)
- Lewis, John L. (with Silver, Judy) Parabolic measure and the Dirichlet problem for the heat equation in two dimensions. 90c:35079
- Makhmudov, O. I. see Ishankulov, T. I., (90d:00029)
- Marczak, Maria. The Fourier problem for the time-spatial strip. (Polish summary) 90g:35065
- Martynenko, Martiya D. (with Martynenko, Mikhailo D.; Boiko, L. F.) A problem without initial conditions for the heat equation. (Ukrainian. Russian summary) (Not in MR)
- (with Martynenko, Mikhailo D.) A problem without initial conditions for the heat equation with variable coefficients. (Ukrainian. Russian summary) (Not in MR)
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- Martynenko, Mikhailo D. see Martynenko, Martiya D., (Not in MR) and (Not in MR)
- Matsuzawa, Tadato. see Kawai, Takahiro, 90j:35104
- Omarov, T. E. Solvability of some boundary value problems for the heat equation in degenerating domains by the method of heat potentials. (Russian) (see 90m:00032)
- Orynbassarov, M. O. A mixed boundary value problem for heat equations with variable coefficients in a wedge-shaped domain. (Russian) 90b:35110
- A boundary value problem for the heat equation with discontinuous coefficients when the boundary conditions contain higher-order derivatives. (Russian. Kazakh summary) 90d:35122
- Pasichnyi, V. V. see Ziskin, V. I.; et al., (90d:00017)
- Schmidt, E. J. P. Georg. Boundary control for the heat equation with nonlinear boundary condition. 90d:35123
- Shtelen', V. M. see Stognil, V. I., (90d:00033)
- Sidorowicz, Józef. Heat diffraction by a smooth and convex domain in \mathbb{R}^n . (Russian) 90m:35079
- Silver, Judy. see Lewis, John L., 90c:35079
- Stognil, V. I. (with Shtelen', V. M.) On a connection between Fokker-Planck equations and the heat equation. (Russian) (see 90d:00033)

- Wu, Jang-Mei. *see* Kaufman, Robert P., 90h:35111
- Wu, Qi Guang. On the stability of the Neumann problem for the heat conduction equation. (Chinese. English summary) 90d:35124
- Zhamalov, R. S. A mixed problem with time derivatives in the boundary condition for the heat equation. (Russian) (*see* 90a:90007)
- Zheng, Qinghua. Über die Existenz von unendlich vielen periodischen Lösungen einer einfachen Temperaturregelung. (English summary) [On the existence of an infinite number of periodic solutions for a simple temperature control] 90d:35125
- Ziskin, V. I. (with Pasichnyi, V. V.; Choba, A. V.) Approximate solution of a nonlinear problem of heat conduction. (Russian) (*see* 90d:90017)
- Items with secondary classifications in 35K05
- Achhab, M. E. (with Cherkaoui, S.) Stabilization of partially observed stochastic evolution systems. 90h:93113
- Ansari, S. R. (with Gairola, R. P.; Indu, B. D.) A new approach to the diffusion equation. (Not in MR)
- Arnold, D. N. (with Noon, Patrick J.) Coercivity of the single layer heat potential. 90d:65186
- Barton, Gabriel. \star Elements of Green's functions and propagation. 90f:35001
- Baryshnikov, A. A. Indirect boundary element method in a two-dimensional problem of heat conduction. (Russian) 90h:65175
- Bertsch, M. (with Klaver, M. H. A.) The Stefan problem with mushy regions: continuity of the interface. 90h:35251
- Bismut, Jean-Michel. Index theorem and the heat equation. 90a:58165
- Bizhanova, G. I. Asymptotic behavior of classical solutions of one-dimensional single-phase Stefan problems. (Russian) 90h:35252
- Brokate, Martin (with Friedman, Avner) Optimal design for heat conduction problems with hysteresis. 90f:93025
- Caginalp, G. (with Fife, Paul C.) Elliptic problems involving phase boundaries satisfying a curvature condition. 90g:35167
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- Chopik, V. I. *see* Fushchich, V. I.; et al., 90g:35138
- Coron, J.-M. (with Ghidaglia, J.-M.) Explosion en temps fini pour le flot des applications harmoniques. (English summary) [Finite-time blow-up for the heat flow of harmonic mappings] 90g:58026
- Culumovic, L. (with McKeon, D. G. C.) Calculation of off-diagonal elements of the heat kernel. 90j:81134
- Davies, E. B. Gaussian upper bounds for the heat kernels of some second-order operators on Riemannian manifolds. 90k:58213
- Denisov, V. N. Stabilization of the solution of the Cauchy problem for the heat equation. 90h:35026
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- Domanski, Zdzislaw (with Rojek, Z.) Application of Fisher-Riesz-Kupradze method to solving the second Fourier problem. 90k:35058
- Escobedo, M. (with Kavian, O.) Variational problems related to self-similar solutions of the heat equation. 90a:35128
- Fife, Paul C. *see* Caginalp, G., 90g:35167
- Friedman, Avner (with Hu, Bei) The Stefan problem for a hyperbolic heat equation. 90d:35307
- *see also* Brokate, Martin, 90f:93025
- Fushchich, V. I. (with Serov, N. I.; Chopik, V. I.) Conditional invariance and nonlinear heat equations. (Russian. English summary) 90g:35138
- (with Serov, N. I.) Conditional invariance and exact solutions of a nonlinear equation of acoustics. (Russian. English summary) 90g:35139
- Gairola, R. P. *see* Ansari, S. R.; et al., (Not in MR)
- Ghidaglia, J.-M. *see* Coron, J.-M., 90g:58026
- Gilliam, David (with Mair, B. A.; Martin, Clyde Franklin) Observability and inversion for the heat equation. (*see* 90k:93007)
- Guo, Bao Qi (with Yang, Feng Lin) The Stefan problem for the heat conduction equation with an unknown coefficient. (Chinese. English summary) 90k:35273
- Guo, Ben Yu. Bergman expansion and its application. 90d:35047
- Hill, James M. (with Dewynne, J.) \star Heat conduction. 90a:80001
- Hills, Norman L. (with Irwin, John M.) Infinite-order differential equations and the heat equation. 90c:34011
- Hsu, Pei. Short-time asymptotics of the heat kernel on a concave boundary. 90f:35032
- Hu, Bei. *see* Friedman, Avner, 90d:35307
- Indu, B. D. *see* Ansari, S. R.; et al., (Not in MR)
- Ionescu, Ioan R. (with Tucsnak, M.) A singular perturbation problem for the heat equation in two phases media. 90f:35291
- Irwin, John M. *see* Hills, Norman L., 90c:34011
- Kavian, O. *see* Escobedo, M., 90a:35128
- Kendall, W. S. Coupled Brownian motions and partial domain monotonicity for the Neumann heat kernel. 90m:58203
- Klamkin, M. S. An anomalous heat conduction problem. 90b:80006
- Klaver, M. H. A. *see* Bertsch, M., 90h:35251
- Kozlov, Vladimir Arkad'evich (with Maz'ya, V. G.; Parton, V. Z.) Thermal shock in a region with a crack. 90c:73020
- Léandre, Rémi. Volume de boules sous-riemanniennes et explosion du noyau de la chaleur au sens de Stein. [Volume of sub-Riemannian balls and explosion of the heat kernel in the sense of Stein] 90k:58245
- Leutwiler, Heinz. On the Appell transformation. 90c:31006
- Mair, B. A. *see* Gilliam, David; et al., (90k:93007)
- Malyshev, Igor (with Morris, H. C.; Naroditsky, Vladimir; Romanyuk, Leonid) Surface integrals approach to solution of some free boundary problems. 90m:35209
- An inverse source problem for heat equation. 90h:35240
- Martin, Clyde Franklin. *see* Gilliam, David; et al., (90k:93007)
- Maz'ya, V. G. *see* Kozlov, Vladimir Arkad'evich; et al., 90c:73020
- McKeon, D. G. C. *see* Culumovic, L., 90j:81134
- Minasyan, R. S. Periodic heat flow in a hollow ball filled with a well-mixed fluid. (Russian. Armenian summary) 90j:80008
- Morris, H. C. *see* Malyshev, Igor; et al., 90m:35209
- Naroditsky, Vladimir. *see* Malyshev, Igor; et al., 90m:35209
- Nesenenko, G. A. Boundary layer of the heat equation in several variables with nonlinear boundary condition as a power-type function. 90h:35057
- Nesenenko, L. M. A method for obtaining an approximate solution of a boundary value problem for the heat equation in the presence of a source of power type and a moving boundary. (Russian) 90g:35008
- Nishikawa, Seiki (with Ramachandran, Mohan; Tondeur, Philippe) The heat equation for Riemannian foliations. 90j:58145
- Noon, Patrick J. *see* Arnold, D. N., 90d:65186
- Odencrantz, K. The effects of a magnetic field on asymptotics of the trace of the heat kernel. 90d:35230
- Parton, V. Z. *see* Kozlov, Vladimir Arkad'evich; et al., 90c:73020
- Pilant, Michael (with Rundell, William) An iteration method for the determination of an unknown boundary condition in a parabolic initial-boundary value problem. 90d:35292
- Ramachandran, Mohan. *see* Nishikawa, Seiki; et al., 90j:58145
- Rojek, Z. *see* Domanski, Zdzislaw, 90k:35058
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- Rundell, William. *see* Pilant, Michael, 90d:35292
- Salet, S. V. The asymptotic behavior of a free boundary as $t \rightarrow \infty$ in a Stefan problem on a half-axis in the presence of heat sources. (Russian) 90h:35040
- Serov, N. I. *see* Fushchich, V. I.; et al., 90g:35138 and 90g:35139
- Stedry, Milan. Periodic solutions of a two-phase multidimensional Stefan problem. (Russian) (*see* 90k:00021)
- Tabacman, Eduardo D. (with Tarzia, D. A.) Sufficient and/or necessary condition for the heat transfer coefficient on Γ_1 and the heat flux on Γ_2 to obtain a steady-state two-phase Stefan problem. 90c:35173
- Tarzia, D. A. *see* Tabacman, Eduardo D., 90c:35173
- Tondeur, Philippe. *see* Nishikawa, Seiki; et al., 90j:58145
- Tucsnak, M. *see* Ionescu, Ioan R., 90f:35291
- Varopoulos, Nicholas Th. Small time Gaussian estimates of heat diffusion kernels. I. The semigroup technique. 90k:58216
- Venttsel', T. D. Asymptotic behavior of solutions of the heat equation in domains with curvilinear boundaries. (Russian. English summary) 90f:35036
- Yang, Feng Lin. *see* Guo, Bao Qi, 90k:35273

35K10 Second-order equations, general

- Amonov, B. K. On the stability of solution of an equation of parabolic type with data on a set of points that are lying in a cube. (Russian) (*see* 90d:00014)
- Berryman, James G. Bounds on decay constants for diffusion through inhomogeneous media. 90a:35105
- Bobula, Eugeniusz. On some solution of the diffusion equation. 90d:35126
- Dosumov, T. B. (with Khodzhanova, Zh. A.) Generalized solution and its investigation by the Lyapunov functional method. (Russian) 90a:35106
- Dzhenaliev, M. T. An initial-boundary value problem for a loaded equation of parabolic type. (Russian) (*see* 90m:00032)
- Eidel'man, S. D. *see* Porper, F. O., 90d:35128
- Garnaev, A. Yu. *see* Sedykh, L. G., (90h:00010)
- Gurevich, A. V. (with Mints, R. G.; Pukhov, A. A.) Motion of a kink in a bistable medium with hysteresis. 90d:35127
- Heurteaux, Yanick. Inégalités de Harnack à la frontière pour des opérateurs paraboliques. (English summary) [Boundary Harnack inequalities for parabolic operators] 90f:35005
- Inégalités de Harnack à la frontière pour des opérateurs paraboliques. II. Estimations de la mesure harmonique de certains ouverts de \mathbb{R}^{n+1} . (English summary) [Boundary Harnack inequalities for parabolic operators. II. Estimations of the harmonic measure of some open sets of \mathbb{R}^{n+1}] 90f:35086
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- Khodzhanova, Zh. A. *see* Dosumov, T. B., 90a:35106
- Kovalenko, V. F. (with Semenov, Yu. A.) On L_1 -theory of parabolic semigroups. (Russian) 90j:35105
- Lin, Fang-Hua. A uniqueness theorem for parabolic equations. 90j:35106
- Martineko, Mariya D. A problem without initial conditions for second-order parabolic equations. (Ukrainian. Russian summary) (Not in MR)
- Mints, R. G. *see* Gurevich, A. V.; et al., 90d:35127
- Naurzybaeva, R. M. Solution of a system of diffusion equations that is nonparabolic in the sense of Petrovskii. (Russian) (*see* 90m:00032)
- Nazarov, A. I. Interpolation of linear spaces and estimates for the maximum of a solution for parabolic equations. (Russian) 90j:35119
- Ospanov, K. N. Properties of solutions of parabolic equations with nonsmooth coefficients. (Russian) (*see* 90h:00003)
- Porper, F. O. (with Eidel'man, S. D.) On the validity of two-sided estimates for weak fundamental solutions of diffusion equations with drift. (Russian. English summary) 90d:35128
- Pukhov, A. A. *see* Gurevich, A. V.; et al., 90d:35127
- Sadyrbayev, F. Zh. On the number of stationary solutions of a scalar parabolic equation. (Russian) 90c:35080
- Sedykh, L. G. (with Garnaev, A. Yu.) Solution of a singularly perturbed nonlinear differential equation of parabolic type. (Russian) (*see* 90h:00010)
- Semenov, Yu. A. *see* Kovalenko, V. F., 90j:35105
- Shishkov, A. E. Behavior of generalized solutions of parabolic equations in divergence form in a neighborhood of a boundary point. (Russian) (*see* 90h:00021)
- Sidorowicz, Józef. On the fundamental solution of a parabolic equation with small parameters. (Russian) 90c:35100
- Wang, Xu Jia. Schauder estimates for solutions to second-order linear parabolic equations. (Chinese) 90c:35101
- Watson, N. A. Hyperplane mean values of solutions of parabolic equations. 90h:35113
- Zhikov, V. V. Spectral approach to asymptotic diffusion problems. 90a:35107

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- Ad'ymov, M. M. Self-similar solutions of a nonlinear equation of parabolic type. (Russian) 90b:35046
- Amosov, B. K. An ill-posed problem without initial conditions. (Russian) 90d:35286
- Arkhipova, A. A. (with Ural'tseva, N. N.) Regularity of the solution of a problem with a two-sided limit on a boundary for elliptic and parabolic equations. (Russian) 90b:35044 (Barbu, Viorel) see Moroşanu, Gheorghe, 90a:34139
- Bogdanaki, Yu. V. The Cauchy problem for the heat equation with a nonregular elliptic operator. 90j:35189
- Borisovskii, A. D. The limit behavior of a solution of the Cauchy problem for a parabolic equation. 90f:35029
- Branner, Claude-Michel (with Noor Ebad, Samadollah; Schmidt-Lainé, Claudine) Sur la stabilité d'ondes singulières en combustion. (English summary) [Stability analysis of singular travelling waves in combustion] 90a:35021
- Brzywczy, Stanisław An estimate for the rate of convergence of successive Chaplygin approximations for a parabolic system of functional-differential equations. (Russian) 90i:35274
- Cerrai, P. On a mathematical model for body tissue inflammation. 90m:92006
- Chang, Chang Boon The uniqueness and continuity on the initial data of solutions of the inverse boundary value problems for linear parabolic equations in a domain with unknown boundary. (Korean. English summary) 90b:35237
- Chang, Chang-Bock (with Kravaris, Costas) Identification of spatially discontinuous parameters in second-order parabolic systems by piecewise regularization. 90a:93035
- Day, W. A. A property of periodic solutions of parabolic equations which has implications for thermomechanics. 90c:35013
- Garofalo, Nicola (with Lanconelli, Ermanno) Asymptotic behavior of fundamental solutions and potential theory of parabolic operators with variable coefficients. 90i:35040
- Guo, Bao Qi (with Tian, Hong Chang) A uniqueness theorem for an inverse problem of determining two unknown parameters in a parabolic equation. (Chinese. English summary) 90b:35240
- (with Wu, Jian Cheng) Inverse problem of the parabolic equation in a finite region. 90d:35290
- Gushchina, A. K. Dependence of the behavior, for large time values, of a solution of a parabolic equation on the data of the problem. (Russian) 90f:35021
- Isakov, Victor Uniqueness for inverse parabolic problems with a lateral overdetermination. 90m:35198a
- Correction to: "Uniqueness for inverse parabolic problems with a lateral overdetermination". 90m:35198b
- Joseph, K. T. Boundary layers in approximate solutions. 90g:35096
- Kaufman, Robert M. A strong contractivity property for semigroups generated by differential operators. 90a:47123
- Kirpikova, O. I. (with Rashchepkina, N. A.) Asymptotic integration of a singularly perturbed parabolic problem. (Russian) (see 90b:00010)
- Kravaris, Costas see Chung, Chang-Bock, 90a:93035
- Kristev, D. A generalized Phragmén-Lindelöf theorem for the parabolic differential equation. 90j:35014
- Kröger, Pawel Harmonic spaces associated with parabolic and elliptic differential operators. 90k:31011
- Krotova, V. S. Asymptotic differentiation of the state of a parabolic system that is controllable with respect to the variation in the boundary. (Russian) 90g:93052
- Lanconelli, Ermanno see Garofalo, Nicola, 90i:35040
- Lepin, L. A. Uniqueness of the monotone solution of a self-similar equation in the theory of nonlinear heat conduction. (Russian) 90b:35047
- Liang, Xi Ting Improved estimates of the maximum modulus of generalized solutions to linear second-order elliptic and parabolic equations. (Chinese. English summary) 90k:35061
- Mawata, C. A priori estimates and existence theory for entire solutions of linear parabolic equations. (see 90j:00016)
- Schauder estimates and existence theory for entire solutions of linear parabolic equations. 90i:35024
- Moroşanu, Gheorghe ★ Nonlinear evolution equations and applications. 90a:34139
- Nersisyan, T. G. Representation in explicit form of the fundamental solution of a class of equations of parabolic type. (Russian) (see 90d:34002)
- Noor Ebad, Samadollah see Branner, Claude-Michel; et al., 90a:35021
- Oh, Jae-pil (with Tomisaki, Matsuyo) Asymptotic behavior of elementary solutions of periodic generalized diffusion equations. 90d:35030
- Pham Le'p'Va Inverse problems for parabolic equations. 90i:35285
- Radkevich, E. V. Operator pencils of contact problems with a free boundary. (Russian) 90g:35168
- Rashchepkina, N. A. see Kirpikova, O. I., (90b:00010)
- Ratyni, A. K. A problem of determining the matrix of coefficients multiplying the highest derivatives of a parabolic equation. III. (Russian) (see 90d:00012)
- Sauer, Niko The Friedrichs extension of a pair of operators. 90k:47090
- Schmidt-Lainé, Claudine see Branner, Claude-Michel; et al., 90a:35021
- Seinfeld, John H. see Yu, Wen Huan, 90g:93035
- Shen, Lian Shan The boundary layer weighted residual method for singular perturbation problems of parabolic equations. (Chinese. English summary) 90c:65152
- Smagulov, B. T. A stationary equation of free convection with dissipation. (Russian) (see 90m:00032)
- Solov'ev, V. V. Solvability of an inverse problem of determining a source, with overdetermination on the upper cap, for a parabolic equation. 90b:35247
- Srunkov, S. P. On the determination of the diffusion coefficient. (Russian) (see 90d:00020)
- Tian, Hong Chang see Guo, Bao Qi, 90b:35240
- Tomisaki, Matsuyo see Oh, Jae-pil, 90d:35030
- Umbetzhano, D. U. Solutions of parabolic equations that are almost periodic with respect to all space-time variables. (Russian. Kazakh summary) 90g:35012
- Ural'tseva, N. N. see Arkhipova, A. A., 90b:35044
- Vesperi, Vincenzo Analytic semigroups generated on a functional extrapolation space by variational elliptic equations. (Italian summary) 90f:35055
- Watson, N. A. ★ Parabolic equations on an infinite strip. 90c:35001

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Yu, Wen Huan (with Seinfeld, John H.) Identification of distributed parameter systems with pointwise constraints on the parameters. 90g:93035

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- Boimatov, K. Kh. (with Kostyuchenko, A. G.) Uniqueness of the solution of the Cauchy problem for second-order parabolic equations with increasing coefficients. 90f:35087
- Chutko, G. I. A nonselfadjoint evolution problem. (Ukrainian. Russian summary) (Not in MR)
- Kamynin, L. I. (with Khimchenko, B. N.) On the dissipative effect for second-order parabolic operators. 90b:35111
- Khimchenko, B. N. see Kamynin, L. I., 90b:35111
- Kostyuchenko, A. G. see Boimatov, K. Kh., 90f:35087
- Minasyan, V. B. The averaging principle for parabolic equations ("the fast variable is an Anosov flow"). 90g:35066
- Repnikov, V. D. Asymptotic behavior of solutions of the Cauchy problem for second-order parabolic equations with an elliptic part in divergence form. 90d:35129
- Sauer, Niko Dynamical processes associated with dynamic boundary conditions for partial differential equations. 90k:35114
- Vitali, Enrico Estimates of the Green function for parabolic operators, and applications. (Italian. English summary) 90c:35102

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- Amouroux, M. (with Benbrik, A.) Contrôle optimal de systèmes à paramètres distribués bilinéaires de type Dirichlet. (English summary) [Optimal control of bilinear distributed-parameter systems of Dirichlet type] 90b:49018
- Benbrik, A. see Amouroux, M., 90b:49018
- Bubnov, B. A. An inverse problem for a parabolic equation and the Cauchy problem for some classes of evolution equations in classes of functions of finite smoothness. 90a:35221
- Chow, Pao Liu Generalized solution of some parabolic equations with a random drift. 90f:60039
- Danilyuk, I. I. (with Timchenko, S. I.) An initial-boundary value problem for a quasilinear parabolic equation with piecewise-continuous coefficients. (Russian. English summary) 90c:35103
- Lelikova, E. F. Asymptotic behavior of the fundamental solution of a parabolic equation in the critical case. (Russian) 90k:35036
- Nambu, Takao Output stabilization for a class of linear parabolic differential equations. 90a:35024
- Repnikov, V. D. The asymptotic closeness and stabilization of the solution of a parabolic equation. 90d:35032
- Timchenko, S. I. see Danilyuk, I. I., 90c:35103
- Zhamalov, R. S. A mixed problem with time derivatives in the boundary condition for the heat equation. (Russian) (see 90a:00007)

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- Baderko, E. A. Solution of a problem with an oblique derivative for a parabolic equation by the method of boundary integral equations. 90b:35112
- Chan, Chiu Yeung (with Wong, Benedict M.) Periodic solutions of singular linear and semilinear parabolic problems. 90m:35000
- Danilyuk, I. I. (with Timchenko, S. I.) An initial-boundary value problem for a quasilinear parabolic equation with piecewise-continuous coefficients. (Russian. English summary) 90c:35103
- Donato, Sant' A normal derivative problem for a class of parabolic equations in several variables with discontinuous coefficients. (Italian. English summary) 90i:35120
- Erdzhibekova, M. A. A boundary value problem for a loaded equation of parabolic type. (Russian) 90c:35081
- Fabes, E. B. (with Garofalo, Nicola; Lanconelli, Ermanno) Wiener's criterion for divergence form parabolic operators with C^1 -Dini continuous coefficients. 90k:35115
- Gagnide, A. G. The uniqueness of solutions of boundary value problems for parabolic equations in unbounded domains. (Russian. English summary) 90d:35130
- Garofalo, Nicola see Fabes, E. B.; et al., 90k:35115
- Gasanova, I. A. Solvability of the first boundary value problem for parabolic equations in noncylindrical domains. (Russian. English and Azerbaijani summaries) 90i:35121
- Hawliczek, Kurt Approximation Greenscher Funktionen bei parabolischen Differentialgleichungen. (English summary) [Approximation of Green functions for parabolic differential equations] 90k:35116
- Joly, Patrick Pseudo-transparent boundary conditions for the diffusion equation. I. 90k:35117
- Kaufman, Robert P. (with Wu, Jang-Mei) An example on highly singular parabolic measure. 90b:35113
- Lanconelli, Ermanno see Fabes, E. B.; et al., 90k:35115
- Lezhnev, A. V. Estimates for the Green function and for solutions of the second mixed problem for a parabolic equation. 90f:35088
- Lower bounds on the Green function of the second mixed problem for a second-order parabolic equation. 90j:35107
- Lieberman, Gary M. Intermediate Schauder theory for second order parabolic equations. III. The task conditions. 90j:35108
- Lopushanskaya, G. P. Solution of the second boundary value problem for a second-order parabolic equation in a space of generalized functions. (Ukrainian. Russian summary) (Not in MR)
- Mirzoev, V. M. Boundary and initial values of the solutions of a second-order parabolic equation with discontinuous coefficients. (Russian. English and Azerbaijani summaries) 90c:35104a
- Boundary values and initial values of the solutions of a second-order parabolic equation with discontinuous coefficients. 90c:35104b

- Selvaggi, Renata** (with Sisto, Irene) Boundary value problems in C^1 -cylinders for second-order parabolic equations with coefficients satisfying a Dini condition. (Italian. English summary) **90c:35082**
- Shishkov, A. E.** Uniqueness classes of solutions of mixed problems for parabolic equations in nontube domains. (Russian) **90c:35105**
- Sinestrari, Eugenio** (with von Wahl, Wolf) On the solutions of the first boundary value problem for the linear parabolic equations. **90c:35106**
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- Fryud, V. M. (with Tsybal, Victor) A mixed problem for a hyperbolic equation with several small parameters. (Ukrainian. Russian summary) (Not in MR)
- Gao, Bao Qi (with Yang, Guang) Inverse problem of the boundary value problem in a one-dimensional linear hyperbolic equation. (Not in MR)
- Hrusa, W. J. (with Renardy, Michael) A model problem in one-dimensional viscoelasticity with a singular kernel. 90m:73027
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- Lesky, P., Jr. Resonance phenomena for a class of partial differential equations of higher order in cylindrical waveguides. 90h:35019
- Mizohata, S. On the Levi condition. 90j:35003
- Nishitani, Tatsuo Une classe d'opérateurs hyperboliques à caractéristiques multiples. (English summary) [A class of hyperbolic operators with multiple characteristics] 90c:35208
- Oganesyan, G. R. Weighted Cauchy and Dirichlet problems for some partial differential equations that are singular on the boundary. 90c:35039
- Tahara, Hidetoshi Singular hyperbolic systems. VI. Asymptotic analysis for Fuchsian hyperbolic equations in Gevrey classes. 90a:35031

35L30 Higher-order equations, initial value problems

- Bernardi, E. (with Bove, A.) Conditions de Levi pour le problème de Cauchy pour une classe d'équations hyperboliques à caractéristiques triples. [Levi conditions on the Cauchy problem for a class of hyperbolic equations with triple characteristics] 90b:35144b
- (with Bove, A.) The Cauchy problem for a class of hyperbolic operators with triple characteristics. 90b:35144a
- Bove, A. see Bernardi, E., 90b:35144a and 90b:35144b
- Cattabriga, L. (with Mari, D.) Parametrix of infinite order on Gevrey spaces to the Cauchy problem for hyperbolic operators with one constant multiple characteristic. 90d:35169
- Chen, Hua Well-posedness in Gevrey classes of the Cauchy problem for a class of totally characteristic hyperbolic operators. (Chinese) 90k:35151
- Itoh, Shigeharu The Cauchy problem for weakly hyperbolic equations in Gevrey classes. 90c:35103
- Mari, D. see Cattabriga, L., 90d:35169
- Mizohata, S. On the Cauchy problem for hyperbolic equations in C^∞ and Gevrey classes. 90c:35135
- Some remarks on the dependence domain for weakly hyperbolic equations with constant multiplicity. 90k:35152
- Nishitani, Tatsuo Systèmes effectivement hyperboliques. [Effectively hyperbolic systems] 90g:35095
- Okaji, Takashi The Cauchy problem for noneffectively hyperbolic differential operators and their product. 90m:35111
- Qian, Si Xin Quasifundamental solutions to a class of Cauchy problems of effectively hyperbolic operators. (Chinese. English summary) 90i:35155
- Rothberg, Ya. A. A boundary and a mixed problem for homogeneous hyperbolic equations in a complete scale of spaces of Sobolev type. 90b:35121
- Tarama, S. On the initial value problem for the weakly hyperbolic operators in the Gevrey classes. 90j:35131
- Uchiyama, Kōichi L^2 -theory of singular perturbation of hyperbolic equations. I. A priori estimates with parameter ε . 90k:35141
- Zhang, Quan De On the Cauchy problem for weakly hyperbolic operators. (Chinese) 90c:35104

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- Varlamov, V. V. The Cauchy problem for an equation that describes nonstationary waves in a medium with relaxation. 90g:76083
- Yagdzhan, K. A. Necessary conditions for the well-posedness of the Cauchy problem for operators with multiple characteristics. 90j:35005

35L35 Higher-order equations, boundary value problems

- Baev, A. D. Energy estimates in a mixed problem for degenerate q -hyperbolic equations. (Russian) (see 90a:00007)
- Grigoliya, M. P. On the uniqueness of the solution of the characteristic problem for higher-order hyperbolic differential equations. 90a:35134
- Isakov, Victor Uniqueness of the continuation across a time-like hyperplane and related inverse problems for hyperbolic equations. 90h:35142
- Lodovici, C. Solution of a direct problem and an inverse problem for a vibrating beam. (Italian. English summary) 90m:35112
- Shibata, Yoshihiro On the Neumann problem for some linear hyperbolic systems of 2nd order with coefficients in Sobolev spaces. 90k:35153
- Siderfaluk, Ya. I. Existence of a generalized solution of an equation of the oscillation of a plate in a domain with moving boundaries. (Ukrainian. Russian summary) (Not in MR)

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- Kaykova, A. U. Asymptotic behavior of the eigenvalues of a boundary value problem with shift for a higher-order hyperbolic equation. (Russian) 90d:35226
- Krall, Allan M. Asymptotic stability of the Euler-Bernoulli beam with boundary control. 90c:73077
- Malovichko, V. A. A nonlocal boundary value problem for a system of fourth-order differential equations. (Russian. English summary) 90a:35050
- Sakamoto, Reiko Hyperbolic Cauchy problems in a region with a characteristic boundary of full multiplicity. 90k:35181
- Tadmor, Eitan Convenient total variation diminishing conditions for nonlinear difference schemes. 90b:65173
- Wu, Fang Tong A class diffractive boundary value problem with multiple characteristic. 90m:58208

- Yamazaki, Taeko Unique existence of evolution equations of hyperbolic type with countably many singular or degenerate points. 90i:34092

35L40 First-order systems, general

- Chen, Shu Xing The Goursat problem for a class of systems of hyperbolic equations. (Chinese) 90c:35136
- Iskenderov, N. Sh. The inverse scattering problem for a system of four first-order hyperbolic equations on the semi-axis. (Russian) 90a:35135
- Joseph, K. T. Boundary layers in approximate solutions. 90g:35096
- Karabaliyev, R. K. (with Tazhimuratov, I.) Solutions of a hyperbolic system. (Russian) 90b:35143b
- Komatsu, Gen (with Nishitani, Tatsuo) Continuation of bicharacteristics for effectively hyperbolic operators. 90i:35156
- Krylov, A. V. A method of investigating weakly nonlinear interaction between one-dimensional waves. 90c:35137
- Leontovich, V. M. A mixed problem for a system of equations of hyperbolic type in mathematical physics. (Russian) (see 90d:00020)
- Messerle, E. S. (with Neronov, V. S.) Solvability of a first-order linear hyperbolic equation. (Russian) 90b:35145
- Neronov, V. S. see Messerle, E. S., 90b:35145
- Nishitani, Tatsuo Une condition nécessaire pour les systèmes hyperboliques. [A necessary condition for hyperbolic systems] 90b:35144
- see also Komatsu, Gen, 90i:35156
- Oberguggenberger, Michael Hyperbolic systems with discontinuous coefficients: examples. 90b:35146
- Rauch, Jeffrey (with Reed, Michael C.) Bounded, stratified and striated solutions of hyperbolic systems. 90f:35122
- Reed, Michael C. see Rauch, Jeffrey, 90f:35122
- Tazhimuratov, I. see Karabaliyev, R. K., 90b:35143b

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- (Barbu, Viorel) see Moroşanu, Gheorghe, 90a:34139
- Georgiev, Vladimir see Stefanov, Plamen D., 90d:35231
- Ilge, R. On Huygens' principle for the relativistic higher spin wave equations of Buchdahl and Wünsch in presence of a gravitational and an electromagnetic field. 90c:81074
- Iwashita, Hirokazu Spectral theory for symmetric systems in an exterior domain. 90f:35151
- Spectral theory for symmetric systems in an exterior domain. II. 90f:35152
- Kikuchi, Koji Scattering theory for first order systems with long-range perturbations: the existence of the modified wave operators. 90c:35126
- Korbicz, József see Levkov, S. P., 90i:93072
- Levkov, S. P. (with Korbicz, József) Convolution algebra representation of systems described by linear hyperbolic partial differential equations. 90i:93072
- Malovichko, V. A. Boundary value problems for systems of differential equations with operator coefficients of hyperbolic type. (Russian. English summary) 90g:35159
- Michelson, Daniel Initial-boundary value problems for incomplete singular perturbations of hyperbolic systems. 90i:35032
- Moroşanu, Gheorghe ★ Nonlinear evolution equations and applications. 90a:34139
- Reyna, Luis G. L_2 estimates for Chebyshev collocation. 90k:65178
- Smith, William V. Average stability and decay properties of forced solutions of the wave propagation problems of classical physics in energy and mean norms. 90m:35031
- Stefanov, Plamen D. (with Georgiev, Vladimir) Existence of the scattering operator for dissipative hyperbolic systems with variable multiplicities. 90d:35231
- Vodov, G. Y. Existence of the wave operators for dissipative hyperbolic systems with variable multiplicities. 90d:35232
- Existence of the scattering operator for dissipative symmetric systems with short-range perturbation and nonconstant deficit. 90b:35188
- Ziólko, M. Stability of initial-boundary value problems for hyperbolic systems. 90m:65106

35L45 First-order systems, initial value problems

- Amirat, Youcef (with Hamdache, Kamel; Ziani, Abdelhamid) Homogénéisation d'équations hyperboliques du premier ordre et application aux écoulements miscibles en milieu poreux. (English summary) [Homogenization of a system of first-order hyperbolic equations and application to miscible flows in a porous medium] 90k:35154
- Chen, Shi Ming The Cauchy problem for linear limitedly hyperbolic systems of partial differential equations in two variables. (Chinese. English summary) 90f:35123
- Cicognani, M. Existence, uniqueness and propagation of the regularity of the solution of the Cauchy problem for some strictly hyperbolic operators with Lipschitz coefficients with respect to time. (Italian. English summary) 90c:35105
- Hamdache, Kamel see Amirat, Youcef; et al., 90k:35154
- Kajitani, Kunihiko Le problème de Cauchy pour les systèmes hyperboliques linéaires avec un symétriseur non régulier. [The Cauchy problem for linear hyperbolic systems with a nonregular symmetrizer] 90j:35132
- Matsumoto, Waichirō (with Yamahara, Hideo) Necessary conditions for strong hyperbolicity of first order systems. 90m:35113
- Palczewski, Andrzej Perturbation of evolution operators of hyperbolic type with applications to kinetic theory. 90h:35145
- Valliant, Jean Léon Systèmes hyperboliques à multiplicité constante et dont le rang peut varier. (English summary) [Hyperbolic systems with constant multiplicity and variable rank] 90c:35106
- Conditions d'hyperbolicité pour les systèmes à multiplicité constante, de rang pouvant varier. [Hyperbolicity conditions for systems with constant multiplicity whose rank may vary] 90m:35114
- Yamahara, Hideo see Matsumoto, Waichirō, 90m:35113
- Ziani, Abdelhamid see Amirat, Youcef; et al., 90k:35154

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- Gourdin, Daniel Problème de Cauchy faiblement hyperbolique. [The weakly hyperbolic Cauchy problem] 90a:35131

- Khalidov, A. An inverse problem for symmetric systems of hyperbolic equations. (Russian) 90c:35167
- Lin, Xiao-Biao *see* Neves, Aloisio Freiria, 90d:47051
- Neves, Aloisio Freiria (with Lin, Xiao-Biao) A multiplicity theorem for hyperbolic systems. 90d:47051
- Rochet, Jean-Charles Sur quelques équations aux dérivées partielles de l'économie mathématique. [On some partial differential equations in mathematical economics] 90k:35258

35L50 First-order systems, boundary value problems

- Delort, J.-M. Problème mixte hyperbolique avec saut sur la condition aux limites. (English summary) [Hyperbolic mixed problem with jump in the boundary condition] 90k:35155
- Dhurau, A. D. Mixed problems for first-order hyperbolic systems. 90d:35170
- Kirichin'ska, I. B. (with Kirilich, V. M.) A nonlocal problem for a loaded hyperbolic system of first-order equations on a line. (Ukrainian. Russian summary) (Not in MR)
- Kirilich, V. M. A nonclassical problem with integral constraints for a first-order two-dimensional hyperbolic system. (Ukrainian. Russian summary) (Not in MR)
- A problem with nonseparable boundary conditions for a first-order hyperbolic system on a line. (Ukrainian. Russian summary) (Not in MR)
- *see also* Kirichin'ska, I. B., (Not in MR)
- Kubota, Kaji Microlocal parametrices and propagation of singularities near gliding points for hyperbolic mixed problems. II. 90k:35147
- Pethov, Vesselin M. Propagation des singularités et apparition des ondes latérales pour des systèmes symétriques. [Propagation of singularities and occurrence of lateral waves for symmetric systems] 90c:35138

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- Amirat, Youcef (with Hamdache, Kamel; Ziani, Abdelhamid) Homogénéisation d'équations hyperboliques du premier ordre et application aux écoulements miscibles en milieu poreux. (English summary) [Homogenization of a system of first-order hyperbolic equations and application to miscible flows in a porous medium] 90k:35154
- Beirão da Veiga, H. On a linear nonelliptic system concerning the dynamic of stationary motions. (Italian summary) 90d:35237
- Existence results in Sobolev spaces for a stationary transport equation. 90d:35238
- Kato's perturbation theory and well-posedness for the Euler equations in bounded domains. 90d:35239
- Boundary-value problems for a class of first order partial differential equations in Sobolev spaces and applications to the Euler flow. 90d:35240
- Grimmer, R. (with Lenczewski, R.; Schappacher, W.) Well-posedness of hyperbolic equations with delay in the boundary conditions. 90k:35228
- Gustafsson, Bertil Far-field boundary conditions for time-dependent hyperbolic systems. 90b:65188
- Hamdache, Kamel *see* Amirat, Youcef, et al., 90k:35154
- Kamont, Zdzisław (with Turo, Jan) Generalized solutions of boundary value problems for quasilinear systems with retarded argument. (Serbo-Croatian summary) 90c:35192
- Kirilich, V. M. A multiphase problem of Stefan type for a first-order hyperbolic system. (Ukrainian. Russian summary) (Not in MR)
- *see also* Mel'nik, T. E., (Not in MR)
- Lagnese, John E. Exact boundary controllability of Maxwell's equations in a general region. 90c:93009
- Lenczewski, R. *see* Grimmer, R.; et al., 90k:35228
- Malovichko, V. A. Boundary value problems for systems of differential equations, with operator coefficients, of parabolic and of hyperbolic type. (Russian. English summary) 90c:35163
- Mel'nik, T. E. (with Kirilich, V. M.) A problem of Stefan type for a weakly linear hyperbolic system. (Ukrainian. Russian summary) (Not in MR)
- Nesterov, A. V. Asymptotic behavior of the solution with a transition layer of a singularly perturbed hyperbolic system of equations. 90k:35040
- Schappacher, W. *see* Grimmer, R.; et al., 90k:35228
- Turo, Jan *see* Kamont, Zdzisław, 90c:35192
- Ziani, Abdelhamid *see* Amirat, Youcef, et al., 90k:35154

35L55 Higher-order hyperbolic systems

- Inskenderov, N. Sh. The scattering problem for a hyperbolic system of four first-order equations on the semiaxis. (Russian) 90k:35146
- Malovichko, V. A. Boundary value problems for degenerate and nondegenerate hyperbolic systems. 90k:35157
- Boundary value problems for a system of fourth-order differential equations. 90k:35158
- Mechab, Mustapha Sur le problème de Cauchy associé à une classe d'opérateurs à caractéristiques de multiplicité variable au plus trois. (English summary) [The Cauchy problem associated with a class of operators with variable multiplicity ≤ 3] 90k:35148
- Nishitani, Tatsuo Involutivity system of effectively hyperbolic operators. 90k:35159

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- Bloom, C. O. (with Kazarinoff, N. D.) Energy decay for hyperbolic systems of second-order equations. 90k:35032
- Ding, Zhong Hai *see* Feng, De Xing, 90c:93039
- Feng, De Xing (with Ding, Zhong Hai) The approximation problem for hyperbolic pointwise control systems. 90c:93039
- Kazarinoff, N. D. *see* Bloom, C. O., 90k:35032
- Lada, Andrzej One system of quasilinear hyperbolic equations: uniqueness and global solvability of the Cauchy problem. 90c:35114
- Orlovskii, D. G. Determination of the coefficients of a first-order linear hyperbolic system. (Russian) (see 90d:90020)

35L60 First-order nonlinear equations and systems

- Allinac, S. Ondes de rarefaction pour des systèmes quasi-linéaires hyperboliques multidimensionnels. [Rarefaction waves for multidimensional hyperbolic quasilinear systems] 90k:35147a

- Existence d'ondes de rarefaction pour des systèmes quasi-linéaires hyperboliques multidimensionnels. (English summary) [Existence of rarefaction waves for multidimensional hyperbolic quasilinear systems] 90k:35147b
- Unicité d'ondes de rarefaction pour des systèmes quasi-linéaires hyperboliques multidimensionnels. (English summary) [Uniqueness of rarefaction waves for multidimensional hyperbolic quasilinear systems] 90k:35124
- Biagioni, H. A. The Cauchy problem for semilinear hyperbolic systems with generalized functions as initial conditions. 90d:35171
- Bloom, Frederick Formation of shock discontinuities for a class of nonlinear transmission lines. 90d:35172
- Chen, Shu Xing Piecewise smooth solutions of semilinear hyperbolic systems in higher space dimension. 90k:35156
- Dewynne, J. (with Ockendon, J. R.; Wilmott, P.) On a mathematical model for fiber tapering. 90c:35107
- Ferapontov, E. V. Systems of three differential equations of hydrodynamic type with a hexagonal 3-web of characteristics on solutions. 90k:35157
- Fusco, D. (with Manganaro, N.) Prominent features of a variable transformation for a class of quasilinear hyperbolic systems of first order. 90k:35160
- Gu, Ben Reflection of singularities at boundary for piecewise smooth solutions to semilinear hyperbolic systems. 90k:35158
- Jordanov, L. V. Anomalous singularities of semilinear hyperbolic systems. 90f:35125
- Jeffrey, Alan On the many different aspects of nonlinearity in waves. (see 90j:00023)
- Joly, J.-L. (with Rauch, Jeffrey) Ondes oscillantes semi-linéaires à hautes fréquences. (English summary) [High-frequency semilinear oscillating waves] 90d:35173
- Kosinski, Witold On the concept of weak solutions in the BV-space. 90f:35126
- Le Floch, Philippe Entropy weak solutions to nonlinear hyperbolic systems in nonconservation form. 90c:35136
- Li, Cai Zhong (with Yan, Guo Zheng; Zhang, Yu Ping) Convergence of approximate solutions to general 2×2 strictly hyperbolic inhomogeneous systems of equations. (Chinese. English summary) 90a:35137
- Liu, Long Wei (with Zheng, Yong Shu) Existence and nonexistence of global smooth solutions for quasilinear hyperbolic systems. 90d:35174
- Manganaro, N. *see* Fusco, D., 90k:35160
- Marcati, Pierangelo Nonhomogeneous quasilinear hyperbolic systems: initial and boundary value problems. 90d:35175
- *see also* Xiao, Ling, 90k:35162
- Métivier, G. Ondes discontinues pour les systèmes hyperboliques semi-linéaires. (English summary) [Discontinuous waves for first order semilinear hyperbolic systems] 90g:35098
- Propagation, interaction and reflection of discontinuous progressing waves for semilinear hyperbolic systems. 90g:35097
- Oberguggenberger, Michael Hyperbolic systems with discontinuous coefficients: generalized solutions and a transmission problem in acoustics. 90k:35133
- Ockendon, J. R. *see* Dewynne, J.; et al., 90k:35107
- Ohkubo, Toshio Well posedness for quasi-linear hyperbolic mixed problems with characteristic boundary. 90d:35176
- Peradzynski, Zbigniew On overdetermined hyperbolic systems. 90j:35134
- Rammaha, M. A. Formation of singularities in compressible fluids in two-space dimensions. 90k:35127
- Rauch, Jeffrey *see* Joly, J.-L., 90d:35173
- Romanovskii, R. K. Averaging hyperbolic equations. 90k:35161
- Romenskii, E. I. Hyperbolic equations of a nonlinear Maxwell model of an elastoplastic heat-conducting medium. 90k:35159
- Ruggeri, T. Stability and discontinuity waves for symmetric hyperbolic systems. 90k:35160
- Shemetov, N. V. On the existence of a generalized solution of a nonstrictly hyperbolic system. (Russian) 90k:35135
- Termini, Domenica Infinitesimal group analysis for the Riemann system. (Italian summary) 90k:35148
- Wilmott, P. *see* Dewynne, J.; et al., 90k:35107
- Xiao, Ling (with Marcati, Pierangelo) Nonhomogeneous quasilinear hyperbolic system arising in chemical engineering. 90k:35162
- Yan, Guo Zheng *see* Li, Cai Zhong; et al., 90a:35137
- Yu, Jin Guo (with Zhao, Yan Chun) Cauchy problems for systems of quasilinear hyperbolic equations with internal dissipation. (Chinese) 90d:35177
- Zajackowski, Wojciech M. Noncharacteristic mixed problems for nonlinear symmetric hyperbolic systems. 90d:35178
- Zhang, Tong (with Zheng, Yu Xi) Riemann problem for gasdynamic combustion. 90k:35163
- Zhang, Yu Ping *see* Li, Cai Zhong; et al., 90a:35137
- Zhao, Yan Chun *see* Yu, Jin Guo, 90d:35177
- Zheng, Yong Shu *see* Liu, Long Wei, 90d:35174
- Zheng, Yu Xi *see* Zhang, Tong, 90k:35163
- Zhou, Xiao Lin Centered wave solutions with large amplitudes for quasilinear hyperbolic systems. (Chinese. English summary) 90k:35139
- Local solutions of the large amplitude centered wave problem for quasilinear hyperbolic systems. (Chinese) 90k:35149

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- Alber, H.-D. On the existence in the large of solutions to the one-dimensional, isentropic hydrodynamic equations in a bounded domain. 90f:35170
- Aoki, Kazuo *see* Boffi, V., 90c:82035
- Bakhurskii, A. G. (with Maistrenko, Yu. L.) Stability of solutions of one-dimensional hyperbolic systems with nonlinear boundary conditions of a special type. (Russian) 90k:35025
- Berzhanov, A. B. *see* Zhakhashbaev, B. Zh., 90a:35014
- Boffi, V. (with Aoki, Kazuo) Nonlinear hyperbolicity in kinetic theory of a gas mixture. (Italian and Russian summaries) 90c:82035
- Calderer, Maria Carme *see* Schleinitzer, G.; et al., 90k:76016
- Carbonaro, P. A class of completely integrable hyperbolic systems. 90k:35232

- Ceppitelli, Rita (with Villarini, Massimo) Error bounds for solutions of systems of quasilinear hyperbolic partial differential equations in bicharacteristic form. **90k:35024**
- Cercignani, C. A singular inverse-scattering approach to nondispersive hyperbolic systems. **90m:58083**
- Cook, L. Pamela see Schleinger, G.; et al., **90k:76016**
- Horst, E. The Vlasov-Maxwell system. **90c:35176**
- Keyfitz, Barbara Lee (with Kranzer, Herbert C.) A viscosity approximation to a system of conservation laws with no classical Riemann solution. **90k:35168**
- Kosiński, Witold Admissibility and uniqueness of weak solutions to hyperbolic systems of balance laws. **90i:35064**
- Kranzer, Herbert C. see Keyfitz, Barbara Lee, **90k:35168**
- Krejčí, Pavel On Maxwell equations with the Preisach hysteresis operator: the one-dimensional time-periodic case. (Russian and Czech summaries) **90m:35176**
- Lü, Da Qian (with Zhao, Yan Chun) Globally defined classical solutions to free boundary problems with characteristic boundary for quasilinear hyperbolic systems. **90a:35236**
- see also Tsuji, Mikio, **90k:35063**
- Lü, Da Zhi Formation of singularities of solutions and the envelope of characteristics for quasilinear hyperbolic systems. (Chinese) **90c:35010**
- Lu, Yun Guang (with Xie, Gui Liang) The asymptotic behavior of solutions of initial value problem to system of gas dynamics with viscosity. **90j:76078**
- Asymptotic behavior of solutions of initial problem to systems of gas dynamics with viscous term. **90g:35147**
- see also Wang, Guang Fa; et al., **90j:76079**
- Maistrenko, Yu. L. see Bakurskii, A. G., **90c:35025**
- Marchesin, Dan (with Medeiros, Heloisa B.) A note on the stability of eigenvalue degeneracy in nonlinear conservation laws of multiphase flow. **90k:35169**
- Medeiros, Heloisa B. see Marchesin, Dan, **90k:35169**
- Michelson, Daniel Initial-boundary value problems for incomplete singular perturbations of hyperbolic systems. **90i:35032**
- Muracchini, Augusto (with Ruggeri, T.) Cauchy problem and symmetric form for the equations of nonlinear magnetoelasticity. (Italian) **90c:73112**
- Nadir, B. (with Piriou, Alain) Ondes semi-linéaires conormales par rapport à deux hypersurfaces transverses. [Conormal semilinear waves with respect to two transversal hypersurfaces] **90i:35175**
- Piriou, Alain see Nadir, B., **90i:35175**
- Ruggeri, T. see Muracchini, Augusto, **90c:73112**
- Schleinger, G. (with Calderer, Maria Carme; Cook, L. Pamela) Embedded hyperbolic regions in a nonlinear model for viscoelastic flow. **90k:76016**
- Slemrod, Marshall (with Tzavaras, Athanassios E.) A limiting viscosity approach for the Riemann problem in isentropic gas dynamics. **90m:35119**
- Tahov, Iordan B. On the local solvability of hyperbolic overdetermined systems of partial differential equations. **90i:58006**
- Tsuji, Mikio (with Lü, Da Qian) Remarks on characteristics of partial differential equations of first order. **90k:35063**
- Ture, Jan Local generalized solutions of mixed problems for quasilinear hyperbolic systems of functional partial differential equations in two independent variables. **90g:35157**
- Tzavaras, Athanassios E. see Slemrod, Marshall, **90m:35119**
- Villarini, Massimo see Ceppitelli, Rita, **90k:35024**
- Wang, Guang Fa (with Lu, Yun Guang; Xie, Gui Liang) The existence and asymptotic behavior of global solutions to the Cauchy problem for inhomogeneous systems of isentropic gas dynamics equations with viscosity. (Chinese. English summary) **90j:76079**
- Xie, Gui Liang see Lu, Yun Guang, **90j:76078** and Wang, Guang Fa; et al., **90j:76079**
- Zhakhashbaev, B. Zh. (with Berzhanov, A. B.) Construction of an almost multiperiodic solution of a system of partial differential equations with triangular matrix coefficients. (Russian) **90a:35014**
- Zhao, Yan Chun see Lü, Da Qian, **90a:35236**
- ### 35L65 Conservation laws [see also 76-XX]
- Avramark, I. Capillary energy and the entropy condition for the Buckley-Leverett equation. **90k:35161**
- Barkve, Tor The Riemann problem for a nonstrictly hyperbolic system modeling nonisothermal, two-phase flow in a porous medium. **90i:35144**
- Bohannon, Barbara J. A system of conservation laws with a parabolic degeneracy. (see **90i:00003**)
- A system of conservation laws exhibiting a parabolic degeneracy on two intersecting lines. **90g:35099**
- Bustos, M. C. On the existence of a global weak solution for the problem of sedimentation with compression. **90g:35100**
- Caviglia, Giacomo (with Morro, Angelo) Initial-data dependent conservation laws for the telegraph equation. (Italian summary) **90c:35140**
- Chang, N. N. On a series of conservation laws in electrodynamics. (Russian) **90i:35165**
- Chen, Shu Xing Smoothness of shock front solutions for systems of conservation laws. **90k:35162**
- Chen, Xing Qian The effect of dissipation on a system of two conservation laws. (Chinese. English summary) **90c:35108**
- Chern, I.-Liang (with Liu, Tai-Ping) Erratum: "Convergence to diffusion waves of solutions for viscous conservation laws" [Comm. Math. Phys. **110** (1987), no. 3, 503–517; MR **88g:35127**]. **90a:35138**
- Dafermos, C. M. Hyperbolic conservation laws with memory. **90k:35163**
- Generalized characteristics in hyperbolic systems of conservation laws. **90h:35150**
- DeVore, R. A. (with Lucier, Bradley J.) High order regularity for solutions of the inviscid Burgers equation. **90k:35164**
- DiPerna, R. J. Oscillations and concentrations in solutions to the equations of mechanics. **90g:35101**
- Dubroca, Bruno (with Gallice, Gérard) Problème mixte hyperbolique pour un système de lois de conservation monodimensionnel. (English summary) [Mixed problem for hyperbolic systems of conservation laws with one space variable] **90a:35139**
- (with Gallice, Gérard) Résultats d'existence et d'unicité du problème mixte pour des systèmes hyperboliques de lois de conservation monodimensionnels. (Existence and uniqueness results of the mixed problem for one-dimensional hyperbolic systems of conservation laws) **90k:35165**
- Freistühler, Heinrich A standard model of generic rotational degeneracy. **90k:35166**
- Fu, En Zhong (with Tang, Tao; Teng, Zhen Huan) Riemann problem for a combustion model system: the existence and basic structure of the self-similar solutions. **90k:35167**
- Fushchich, V. I. (with Nikitin, A. G.) Correction: "New systems and conservation laws of equations for elastic waves". (Russian) **90g:35102b**
- (with Nikitin, A. G.) New systems and conservation laws of equations for elastic waves. **90g:35102a**
- Gallice, Gérard see Dubroca, Bruno, **90a:35139** and **90k:35165**
- Glimm, J. Nonuniqueness of solutions for Riemann problems. **90h:35151**
- Gomes, Maria Elvira Seabra Riemann problems requiring a viscous profile entropy condition. **90h:35152**
- Isaacson, Eli L. (with Marchesin, Dan; Plohr, Bradley J.) Transitional shock waves. (see **90i:00003**)
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- Kawashima, Shuichi (with Shizuta, Yasushi) On the normal form of the symmetric hyperbolic-parabolic systems associated with the conservation laws. **90b:35149**
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- Chen, So-Chin An a priori estimate on the boundary of small admissible domain. 90k:32038
— Global regularity of the $\bar{\partial}$ -Neumann problem on circular domains. 90k:32028
- Christ, Michael On the $\bar{\partial}$ equation and Szegő projection on CR manifolds. 90h:32044
- Li, Hai Ping Integral representation of the canonical solution of the $\bar{\partial}$ -equation. (Chinese) 90m:32011
- Lu, Qi Keng Green form to intrinsic metric of a ball. 90h:32041
- Luppaciola, Guido Some remarks on the hypoellipticity of the $\bar{\partial}$ -problem and the local extendibility of CR-functions. (Italian summary) 90k:32051
- Ma, Lan ★ Abschätzungen von Lösungen der $\bar{\partial}$ -Gleichung auf streng q -konvexen Mengen mit nicht glattem Rand. (German) [Estimates of solutions of the $\bar{\partial}$ -equation on strongly q -convex sets with nonsmooth boundary] 90k:32060
- Nacinovich, M. On strict Levi q -convexity and q -concavity on domains with piecewise smooth boundaries. 90k:32033
- Nagel, A. (with Rosay, J.-P.; Stein, E. M.; Wainger, S.) Estimates for the Bergman and Szegő kernels in C^2 . 90g:32028
— (with Rosay, J.-P.) Nonexistence of homotopy formula for $(0, 1)$ forms on hypersurfaces in C^2 . 90m:32040
- Rosay, J.-P. *see* Nagel, A.; et al., 90g:32028 and 90m:32040
- Stein, E. M. *see* Nagel, A.; et al., 90g:32028
- Straube, Emil J. *see* Boas, Harold P., 90k:32057
- Strauß, Albrecht ★ Integralformeln und a priori-Abschätzungen für das $\bar{\partial}$ -Neumann-Problem. (German) [Integral formulas and a priori estimates for the $\bar{\partial}$ -Neumann problem] 90a:32022
- Trèves, F. Homotopy formulas in the tangential Cauchy-Riemann complex. 90m:32012
- Wainger, S. *see* Nagel, A.; et al., 90g:32028
- Webster, Sidney On the local solution of the tangential Cauchy-Riemann equations. (French summary) 90h:32042a
— On the proof of Kuranishi's embedding theorem. (French summary) 90h:32042b

35N99 None of the above, but in this section

Items with secondary classifications in 35N99

- Isakov, Victor Uniqueness for inverse parabolic problems with a lateral overdetermination. 90m:35198a
— Correction to: "Uniqueness for inverse parabolic problems with a lateral overdetermination". 90m:35198b

35Pxx Spectral theory and eigenvalue problems [see also 47Axx, 47Bxx, 47F05]

35P05 General spectral theory

- Amerova, E. I. (with Nizhnik, L. P.) Spectral analysis of the two-dimensional Dirac operator. (Russian) 90g:35119
- Belishev, M. I. (with Kurylev, Ya. V.) An inverse spectral problem for the scattering of plane waves in a half-space with local inhomogeneity. (Russian) 90h:35178
- Ben-Artzi, Matania (with Dermenjian, Y.; Guillot, J. C.) Acoustic waves in perturbed stratified fluids: a spectral theory. 90i:35194
- Brown, K. J. (with Cosner, Chris; Fleckinger, Jacqueline Pellé) Principal eigenvalues for problems with indefinite weight function on \mathbb{R}^n . 90m:35140
- Cantrell, Robert Stephen (with Cosner, Chris) On eigenfunctions with sign definite components in weakly coupled linear elliptic systems. 90j:35149
- Chen, Zu Chi (with Qian, Chun Lin) Estimates for the discrete spectrum of a quadratic form in the Laplacian operator. (Chinese. English summary) 90k:35189
- Cosner, Chris see Cantrell, Robert Stephen, 90j:35149 and Brown, K. J.; et al., 90m:35140
- Derezinski, Jan Exponential bounds in cones for eigenfunctions of N -body Schrödinger operators. 90f:35150
- Derguzov, V. I. An eigensubspace of a two-dimensional periodic lightguide. 90b:35167
- Dermenjian, Y. see Ben-Artzi, Matania; et al., 90i:35194
- Dufresnoy, Alain Moyenne de formes quadratiques positives et champs magnétiques. [Mean value of positive quadratic forms and magnetic fields] (see 90m:58219)
- Elvazov, E. Kh. Absence of positive eigenvalues of the Schrödinger operator with generalized potentials. (Russian) 90c:35121
- Esposito, Vincenzo (with Miserendino, Dorian) The Poisson kernel of a Grushin operator in a half-space. (Italian. English summary) 90h:35179
- Fleckinger, Jacqueline Pellé see Brown, K. J.; et al., 90m:35140
- Gérard, C. Théorie des résonances pour des opérateurs de Schrödinger périodiques. [Resonance theory for periodic Schrödinger operators] (see 90m:58223)
- Guillot, J. C. see Ben-Artzi, Matania; et al., 90i:35194
- Gurarie, D. L^p and spectral theory for a class of global elliptic operators. 90d:35214
- Heifler, B. (with Mohamed, Abdérame) Caractérisation du spectre essentiel de l'opérateur de Schrödinger avec un champ magnétique. (English summary) [Characterization of the essential spectrum of the Schrödinger operator with a magnetic field] 90d:35215
- Hislop, P. D. (with Nakamura, Shu¹) Semiclassical resolvent estimates. (French summary) 90k:35190
- Iftin, V. A. (with Joó, István) An inequality of Hausdorff-Young type for eigenfunctions of the Laplace operator in a three-dimensional domain. (Russian) 90j:35150
- Iwashita, Hirokazu Spectral theory for symmetric systems in an exterior domain. 90f:35151
— (with Shibata, Yoshihiro) On the analyticity of spectral functions for some exterior boundary value problems. (Serbo-Croatian summary) 90k:35191
— Spectral theory for symmetric systems in an exterior domain. II. 90f:35152
- Joó, István see Iftin, V. A., 90j:35150
- Kozlov, Vladimir Arkad'evich On the spectrum of an operator pencil generated by the Dirichlet problem for an elliptic equation at a corner point. (Russian) 90f:35153
- Kurylev, Ya. V. see Belishev, M. I., 90h:35178
- Makhsudov, F. G. A condition of absence of discrete spectrum of radial Schrödinger operator. 90f:35154
- Miserendino, Dorian see Esposito, Vincenzo, 90h:35179
- Mohamed, Abdérame Quelques remarques sur le spectre de l'opérateur de Schrödinger avec un champ magnétique. [Some remarks on the spectrum of the Schrödinger operator with a magnetic field] 90d:35216
— see also Heifler, B., 90d:35215
- Moiseev, E. I. Disposition of the spectrum of the Tricomi problem for the Lavrent'ev-Bitsadze equation. 90d:35217
- Nakamura, Shu¹ A note on the absence of resonances for Schrödinger operators. 90a:35173
— see also Hislop, P. D., 90k:35190
- Nizhnik, L. P. see Amerova, E. I., 90g:35119
- Pang, M. M. H. L^1 properties of two classes of singular second order elliptic operators. 90b:35168
- Pavlov, B. S. Boundary conditions on thin manifolds and the semiboundedness of the three-body Schrödinger operator with point potential. 90g:35120
- Pospelov, V. L. On the spectrum of a problem arising in magnetohydrodynamics. (Russian) 90k:35180
- Qian, Chun Lin see Chen, Zu Chi, 90k:35189
- Sanchez-Hubert, J. Perturbation des valeurs propres pour des systèmes avec masse concentrée. (English summary) [Perturbation of the eigenvalues for systems with concentrated mass] 90j:35151
- Schröder, Manfred Spectral properties of the Laplacian with attractive boundary conditions. (see 90d:81038)
- Shibata, Yoshihiro see Iwashita, Hirokazu, 90k:35191
- Sohrab, Houshang H. Essential spectra of a class of elliptic operators. 90h:35181
- Tamura, Hideo Resolvent estimates at low frequencies and limiting amplitude principle for acoustic propagators. 90i:35195
- Yajima, Kenji Rate of decay at high energy of local spectral projections associated with Schrödinger operators. 90g:35121
- Items with secondary classifications in 35P05
- Akopyan, G. S. (with Aleksandryan, R. A.) Construction of generalized eigenfunctions for a linear pencil of differential operators in a space of vector functions. (Russian) 90m:47067
- Aleksandryan, R. A. see Akopyan, G. S., 90m:47067
- All Mehmeti, Felix Regular solutions of transmission and interaction problems for wave equations. 90i:35168
- Baez, John C. (with Zhou, Zheng-Fang) The global Goursat problem on $\mathbb{R} \times S^1$. 90f:35115
- Baikuziev, K. B. Estimates for the eigenfunctions of degenerate operators. 90c:34025
- Beckmann, Brigitte On the spectrum of Riemannian G -manifolds. 90h:58225
- Belishev, M. I. On a problem of M. Kac on the reconstruction of the shape of a domain from the spectrum of the Dirichlet problem. (Russian. English summary) 90c:35197
- Bérard, Pierre Volume des ensembles nodaux des fonctions propres du laplacien. [Volume of the nodal sets of eigenfunctions of the Laplacian] 90m:58210
- Bochenek, Jan On some linear eigenvalue problems for strongly elliptic systems with an indefinite weight matrix function. 90k:35089
- Bottaro, Gianfranco (with Oppezzi, Pirro) Variational problems and convergence on unbounded domains. (Italian. English summary) 90d:35067
- Brenner, Terence On the spectra of hypoelliptic operators in \mathbb{R}^2 . 90a:35053
- Colin de Verdière, Yves Opérateur de Schrödinger pour un champ magnétique constant sur l'espace euclidien à deux dimensions. [The Schrödinger operator for a constant magnetic field on two-dimensional Euclidean space] (see 90j:58001)
- L'asymptotique de Weyl pour les bouteilles magnétiques. [Weyl asymptotics for magnetic bottles] (see 90m:58220)
- Conrey, J. Brian (with Smiley, Michael W.) Some geometric aspects of hyperbolic boundary value problems. 90f:35119
- Douglas, R. G. Elliptic invariants for differential operators. 90b:58251
- Dubrovskii, V. V. see Sadovnichii, V. A.; et al., 90m:47040
- Durdyev, N. T. A model eigenvalue problem from the theory of equations of mixed type. (Russian) (see 90d:00022)
- Figotin, A. L. see Pastur, L. A., 90a:47128
- Firsova, N. E. (with Sherstnyuk, A. I.) Some properties of generalized spectral problems connected with the Schrödinger equation. 90i:81030
- Gadzhiev, G. A. On the multiparameter spectral theory of linear and nonlinear differential operators. (Russian) 90d:35283
- Gröger, Konrad (with Rehberg, Joachim) Resolvent estimates in $W^{-1,p}$ for second order elliptic differential operators in case of mixed boundary conditions. 90h:35074
- Hassan, A. A. M. see Zayed, E. M. E., 90h:35249
- Hook, Stephen M. Inequalities for eigenvalues of selfadjoint operators. 90f:47024
- Inin, I. O. A uniqueness theorem for the solution of an inverse problem in spectral theory for a certain class of elliptic operators. (Russian) (see 90m:00040)
- Kappeler, Thomas On isospectral potentials on a discrete lattice. II. 90b:39010b
— On isospectral periodic potentials on a discrete lattice. I. 90b:39010a
— Isospectral potentials on a discrete lattice. III. 90b:39010c
- Kauffman, Robert M. On essential selfadjointness of partial differential operators with positive coefficients. 90a:47122
- Kirsch, Werner The stability of the density of states of Schrödinger operator under very small perturbations. 90f:47071
- Kopachevskii, N. D. (with Temnov, A. N.) Oscillations of an ideal stratified fluid in a cylindrical basin with variable frequency of buoyancy. 90a:76151
- Korenblit, S. E. Partial Sobolev determinants and spectral density of the resolvent in momentum transfer. 90k:81267
- Kozlov, Vladimir Arkad'evich (with Maz'ya, V. G.) Spectral properties of operator pencils generated by elliptic boundary value problems in a cone. 90a:47125
- Kurasov, P. B. (with Pavlov, B. S.) An electron in a homogeneous crystal of point-like atoms with internal structure. II. 90d:81035
- Lapidus, Michel L. Inverse spectral problems for elliptic operators on fractal drums and the Weyl-Berry conjecture. (see 90j:00016)
- Limaye, Balmohan V. ★ Spectral perturbation and approximation with numerical experiments. 90a:47051
- Lin, Xiao-Biao see Neves, Aloisio Freiria, 90d:47051
- Lindqvist, Peter On the equation $\operatorname{div}(|\nabla u|^{p-2} \nabla u) + \lambda|u|^{p-2}u = 0$. 90h:35088
- Malev, A. V. On the calculation of spectral characteristics of open optic resonators. (Russian. English summary) 90g:78013
- Maz'ya, V. G. see Kozlov, Vladimir Arkad'evich, 90a:47125
- Mirzoev, G. G. Separation of the spectral parameters of a multiparameter eigenvalue problem. (Russian) 90e:47017
- Moiseev, E. I. ★ Уравнения смешанного типа со спектральным параметром. (Russian) [Equations of mixed type with a spectral parameter] 90e:35120
- Moiseichev, V. S. Reconstruction of coefficients in linear mathematical models, and nonlinear boundary problems. (Russian) 90j:35197
- Moscovici, Henri (with Stanton, Robert J.) Eta invariants of Dirac operators on locally symmetric manifolds. 90h:58252
- Muratbekov, M. B. The spectrum of a class of nonuniformly degenerate elliptic operators. (Russian) (see 90h:00003)
- Nadirashvili, N. S. The length of the nodal curve of an eigenfunction of the Laplace operator. 90c:58161
- Nagornyi, A. V. see Sadovnichii, V. A.; et al., 90m:47040
- Natanzon, S. M. Prymians of real curves and their applications to the effectivization of Schrödinger operators. 90i:14031
- Neves, Aloisio Freiria (with Lin, Xiao-Biao) A multiplicity theorem for hyperbolic systems. 90d:47051
- Novikov, R. G. A multidimensional inverse spectral problem for the equation $-\Delta \psi + (v(x) - Eu(x))\psi = 0$. 90h:35243
- Oppezzi, Pirro see Bottaro, Gianfranco, 90d:35067
- Pastur, L. A. (with Figotin, A. L.) An example of multidimensional almost periodic operators whose point and continuous spectra intersect. (Russian) 90a:47128
- Pavlov, B. S. An electron in a homogeneous crystal of point-like atoms with internal structure. I. (Russian. English summary) 90d:81034
— see also Kurasov, P. B., 90d:81035
- Rehberg, Joachim see Gröger, Konrad, 90h:35074

- Sadovnichii, V. A.¹ (with Dubrovskii, V. V.; Nagornyi, A. V.) Asymptotics of the spectral function of a discrete operator. 90m:47040
- Saifi, Mahmoud-Sabry Some spectral properties of m -accretive differential operators. 90f:47073b
- Some spectral properties of m -accretive differential operators. 90f:47073a
- Schröder, Manfred On the spectrum of Schrödinger operators at the half space with a certain class of boundary conditions. (German and Russian summaries) 90b:47088
- Sherstynsk, A. I. see Firsova, N. E., 90f:81030
- Shobdia, V. I. Homogeneous boundary value problems for a polyharmonic operator with boundary conditions on thin sets. 90f:35087
- Smiley, Michael W. see Conrey, J. Brian, 90f:35119
- Stanton, Nancy K. Spectral invariants of CR manifolds. 90k:58239
- Stanton, Robert J. see Moscovici, Henri, 90b:58252
- Suzuki, Takashi Ultra-hyperbolic approach to some multi-dimensional inverse problems. 90d:35298
- Temnov, A. N. see Kopachevskii, N. D., 90a:76151
- Wang, Xue Ping Semiclassical estimates on resolvents of Schrödinger operators with homogeneous electric field. 90f:35080
- Wang, M. W. The spectrum of a one-dimensional pseudo-differential operator. 90d:47057
- Zayed, E. M. E. (with Hassan, A. A. M.) The wave equation approach to an inverse problem for a general convex domain. 90b:35249
- Hearing the shape of a general convex domain. 90j:58156
- Zhou, Zheng-Fang see Baoz, John C., 90f:35115

35P10 Completeness of eigenfunctions, eigenfunction expansions

- Achilov, P. I. Term-wise differentiation of expansions in eigenfunctions. (Russian) (see 90d:00029)
- Cheremshantsev, S. E. Expansion in eigenfunctions of a nonselfadjoint operator with a purely continuous spectrum. 90a:35174
- Evdzhamov, A. E. Inequalities of Bessel, Hausdorff-Young-Riesz and Hilbert type in a system of eigen- and associated functions of a second-order elliptic operator. (Russian) 90a:35175
- Faierman, M. (with Roach, G. F.) Full and half-range eigenfunction expansions for an elliptic boundary value problem involving an indefinite weight. 90j:35152
- Elliptic problems involving an indefinite weight. 90k:35192
- Jensen, Arne² (with Kitada, Hitoshi) Fundamental solutions and eigenfunction expansions for Schrödinger operators. II. Eigenfunction expansions. 90a:35176
- Jó, István On the uniform Riesz summability of eigenfunction expansions. I. 90f:35155
- Khalimukhamedov, A. R. Spectral expansions of the Schrödinger operator with a potential that is singular on manifolds. (Russian) 90j:35153
- Kitada, Hitoshi see Jensen, Arne², 90a:35176
- Kozlov, Vladimir Arkad'evich (with Maz'ya, V. G.) An asymptotic formula for eigenfunctions of the Dirichlet problem in a domain with a conic point. 90d:35218
- Larionov, E. A. Properties of root functions of some differential operators. (Russian) 90m:35141
- Makia, A. S. Summability of spectral expansions that correspond to the nonselfadjoint Schrödinger operator. I. 90b:35169
- The mean value formula for eigen- and adjoint functions of the Schrödinger operator. 90b:35196
- Mamedov, Ya. N. Completeness of root functions of some boundary value problems. (Russian) 90b:35170
- Maz'ya, V. G. see Kozlov, Vladimir Arkad'evich, 90d:35218
- Moiseev, E. I. Completeness of a system of root functions of the Tricomi problem for the Lavrent'ev-Bitsadze equation. (Russian) 90e:35122
- Mustafa, M. A. The Riesz basis of the Bitsadze-Samarskii spectral problem with infinitely multiple eigenvalues. (Russian) 90b:35171
- Potekha, A. On the summability by the Abel method of expansions in eigenfunctions. (Russian. English and Lithuanian summaries) 90f:35156
- Pulato, A. K. Bounded divergence of some spectral expansions. (Russian) (see 90m:00040)
- Roach, G. F. see Faierman, M., 90j:35152
- Rudyykh, G. A. (with Sinitsyn, A. V.) Eigenfunction expansion of a solution of a generalized Liouville equation. (Russian) 90b:35172
- Sailmor, Ya. Sh. Riesz means of expansions in eigenfunctions of nonselfadjoint extensions of the Laplace operator. (Russian) 90j:35154
- Sinitsyn, A. V. see Rudyykh, G. A., 90b:35172
- Skubachevskii, A. L. Eigenvalues and eigenfunctions of some nonlocal boundary value problems. 90c:35155
- Vagabov, A. I. Fourier series expansions in principal functions of an elliptic operator. (Russian) 90a:35177

Items with secondary classifications in 35P10

- Abramov, A. A. (with Dyshko, A. L.; Konyukhova, N. B.; Levitina, T. V.) Calculation of angular Lamé wave functions by solving auxiliary differential equations. (Russian) 90f:35044
- Alilakverdiev, B. P. Completeness of eigenfunctions for a dissipative Schrödinger operator and resonance states in a problem of the scattering of one-dimensional plane waves. (Russian. English and Azerbaijani summaries) 90b:34032
- Belinskii, B. P. On the basis property of eigenfunctions of a waveguide cross section with flexible partitions. (Russian) 90k:35068
- Dyshko, A. L. see Abramov, A. A.; et al., 90f:35044
- Erallier, S. E. (with Kalfmenov, T. Sh.) Eigenfunctions of a selfadjoint problem for a second-order equation of mixed type. (Russian) 90a:35161
- Faierman, M. (with Roach, G. F.) Eigenfunction expansions for a two-parameter system of differential equations. 90d:35050
- Horváth, Miklós (with Jó, István; Komornik, V.) An equiconvergence theorem. 90j:34039
- Huzilker, W. Notes on asymptotic perturbation theory for Schrödinger eigenvalue problems. 90d:47050
- Jenkins, Joe W. A characterization of bi-invariant Schwartz space multipliers on nilpotent Lie groups. 90d:22009

- Jó, István see Horváth, Miklós; et al., 90j:34039
- Kalfmenov, T. Sh. see Erallier, S. E., 90a:35161
- Kashirnikov, V. V. A -complete systems of functions for solving boundary value problems in unbounded domains. (Russian) 90g:34026
- Kirsch, Werner (with Simon, Barry) Corrections to the classical behavior of the number of bound states of Schrödinger operators. 90b:35065
- Komornik, V. see Horváth, Miklós; et al., 90j:34039
- Konyukhova, N. B. see Abramov, A. A.; et al., 90f:35044
- Kudryatsev, L. D. Some problems in spectral theory for differential equations whose coefficients have singular points. (Russian) 90f:34048
- Levitina, T. V. see Abramov, A. A.; et al., 90f:35044
- Müller, Detlef Horst On Riesz means of eigenfunction expansions for the Kohn-Laplacian. 90i:22017
- Pyatkov, S. G. Some properties of eigenfunctions of linear pencils. 90i:47016
- Roach, G. F. see Faierman, M., 90d:34050
- Serov, V. S. Interpolation of Besov classes and absolute convergence of Fourier series. (Russian) 90e:46028
- Simon, Barry see Kirsch, Werner, 90b:35065
- Volkmer, Hans ★ Multiparameter eigenvalue problems and expansion theorems. 90d:47021

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Lecture Notes in Mathematics see Volkmer, Hans, 90d:47021

35P15 Estimation of eigenvalues, upper and lower bounds

- Abramov, A. A. (with Vainshtein, L. A.; Dyshko, A. L.; Konyukhova, N. B.) Numerical investigations of free electrical axisymmetric oscillations of an ideally conducting prolate spheroid. (Russian) 90k:35193
- Agababian, A. S. A lower bound for the eigenvalue, smallest in modulus, of a semi-elliptic operator. 90c:35156
- Araktsyan, B. G. (with Shakhbagan, R. R.) Estimates for the eigenvalues of second-order elliptic operators. 90d:35219
- Ashbaugh, M. S. (with Benguria, Rafael D.) Optimal lower bounds for eigenvalue gaps for Schrödinger operators with symmetric single-well potentials and related results. 90c:35157
- Barles, G. Remarks on uniqueness results of the first eigenvalue of the p -Laplacian. (French summary) 90b:35173
- Benguria, Rafael D. see Ashbaugh, M. S., 90c:35157
- Boimator, K. Kh. An estimate for the eigenvalues of the Dirichlet problem for a class of degenerate differential operators. (Russian) (see 90m:00040)
- Chen, Zu Chi Estimation of eigenvalue bounds of the polyharmonic operators Δ^{2m} with even orders. (Chinese) 90m:35142
- Cosner, Chris On the complex spectra of second order elliptic systems. 90k:35194
- Davies, E. B. ★ Heat kernels and spectral theory. 90e:35123
- Dyshko, A. L. see Abramov, A. A.; et al., 90f:35193
- Harrell, E. M., II General bounds for the eigenvalues of Schrödinger operators. 90d:35220
- Huang, Yin Xi On eigenvalue problems of p -Laplacian with Neumann boundary conditions. 90b:35182
- Jones, D. S. The eigenvalues of a cavity resonator. 90d:35221
- Konyukhova, N. B. see Abramov, A. A.; et al., 90f:35193
- Rother, Wolfgang¹ New bounds for the first eigenvalue of an elliptic equation occurring in the buckling problem for the plate. 90j:35155
- New estimates for the first eigenvalue of Lamé's operator. 90d:35222
- Schröder, Manfred Estimates on the spectrum of Schrödinger operators with attractive boundary conditions. 90k:35195
- Shakhbagan, R. R. see Araktsyan, B. G., 90d:35219
- Vainshtein, L. A. see Abramov, A. A.; et al., 90f:35193
- Zitnan, Peter An a posteriori error estimation of the Rayleigh-Ritz eigenvalues. 90d:35223
- Items with secondary classifications in 35P15
- Abdelmoulou, Najoua Symétrisation d'inéquations elliptiques et applications géométriques. [Symmetrization of elliptic inequalities and geometric applications] 90e:53049
- Allegretto, W. Second order elliptic equations with degenerate weight. 90c:35056
- Berryman, James G. Bounds on decay constants for diffusion through inhomogeneous media. 90a:35105
- Bochenek, Jan On some linear eigenvalue problems with an indefinite weight function. 90c:35051
- Chen, Roger Eigenvalue estimate on a compact Riemannian manifold. 90k:58228
- Neumann eigenvalue estimate on a compact Riemannian manifold. 90g:58135
- Cheng, Qing Ming Eigenvalues and eigenfunctions of the Laplacian on a Riemannian manifold. (Chinese. English summary) 90b:58265
- Dittmar, Bodo Monotonie bei Stekloffschen Eigenwerten. (English summary) [Monotonicity in Steklov eigenvalues] 90g:35038
- Gevecl, T. (with Reddy, B. Daya; Pearce, Howard T.) On the approximation of the spectrum of the Stokes operator. (French summary) 90i:65186
- Hersch, Joseph Isoperimetric monotonicity: some properties and conjectures (connections between isoperimetric inequalities). 90d:35059
- Hook, Stephen M. Domain-independent upper bounds for eigenvalues of elliptic operators. 90b:35075
- Jones, A. S. (with Stewart, David Edward; Thompson, H. B.) Eigenvalue estimates and existence for a generalised Graetz problem. 90g:76086
- Lee, Jeffrey M. Eigenvalue comparison for tubular domains. 90k:58223
- Orlí, V. R. Determination of free oscillations of an elastic plate by means of N -parametric eigenfunctions of a biharmonic operator. 90c:73078
- Pearce, Howard T. see Gevecl, T.; et al., 90i:65186
- Reddy, B. Daya see Gevecl, T.; et al., 90i:65186
- Stewart, David Edward see Jones, A. S.; et al., 90g:76086
- Thompson, H. B. see Jones, A. S.; et al., 90g:76086

35P20 Asymptotic distribution of eigenvalues and eigenfunctions

- Agranovich, M. S. (with Markus, A. S.) On spectral properties of elliptic pseudo-differential operators far from selfadjoint ones. (German and Russian summaries) 90i:35197
- Andreev, Aleksandr Sergeevich Spectral asymptotics for compact pseudodifferential operators on a Euclidean set. 90i:35122
- Ashurov, R. R. An asymptotic estimate in L_2 for the Riesz means of the spectral function of an elliptic operator. 90d:35224
- Boimator, K. Kh. Spectral asymptotics of differential operators in unbounded domains of finite measure. 90b:35184
- Eigenvalues of elliptic differential operators in limit-cylindrical domains. 90b:35183
- Burda, Pavel The asymptotic distribution of eigenvalues of operators related to elliptic systems. I. Nonselfadjoint elliptic systems. (Russian and Czech summaries) 90b:35174a
- The asymptotic distribution of eigenvalues of operators related to elliptic systems. II. Nonselfadjoint perturbations of systems with discontinuous coefficients. (Russian and Czech summaries) 90b:35174b
- Cardoso, Fernando (with Mendoza, Ramón) The spectral distribution of a globally elliptic operator. 90b:35175
- Cheremshantsev, S. E. Asymptotic completeness in a three-dimensional problem of scattering by a Brownian particle. 90i:35196
- Chiappinelli, R. On spectral asymptotics and bifurcation for elliptic operators with odd superlinear term. 90i:35124
- Codegone, Marco (with Sánchez-Palencia, Enrique) Asymptotics of the scattering frequencies for a thermoelasticity problem with small thermal conductivity. (French summary) 90i:35198
- Efremov, D. V. Asymptotic behavior of the spectral function of second-order elliptic operators on Lobachevskii spaces. 90b:35176
- Faierman, M. On the eigenvalues of nonselfadjoint problems involving indefinite weights. 90a:35178
- Fleckinger, Jacqueline Pellé On eigenvalue problems associated with fractal domains. 90i:35143
- Gurarie, D. Averaging methods in spectral theory of Schrödinger operators. 90d:35225
- Hassan, A. A. M. see Zayed, E. M. E. 90m:35145
- Hempel, Rainer On the asymptotic distribution of the eigenvalue branches of the Schrödinger operator $H \pm \lambda W$ in a spectral gap of H . 90i:35199
- Isakov, R. V. Asymptotics of a spectral series of the Steklov problem for the Laplace equation in a "thin" domain with a nonsmooth boundary. (Russian) 90b:35177
- Ivrii, V. Ya. Sharp spectral asymptotics for the two-dimensional Schrödinger operator with a strong magnetic field. 90i:35200
- Jimbo, Shuichi The singularly perturbed domain and the characterization for the eigenfunctions with Neumann boundary condition. 90b:35158
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- Prüfer, Friedbert Eine Poissonsche Summationsformel für das p -Spektrum sphärischer Raumformen. [A Poisson summation formula for the p -spectrum of spherical space forms] 90h:58082
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35Qxx Special equations and problems [see also 35J05, 35K05, 35L05]

- Katayama, Yoshishige *see* Terauti, Ryutaro, (Not in MR)
- Kondrat'ev, V. A. (with Kopáček, Jiří; Oleinik, O. A.) Smoothness of generalized solutions of the Dirichlet problem for the biharmonic equation, the Navier-Stokes system and the von Kármán system in nonsmooth two-dimensional domains. (Russian) 90c:35128
- Kopáček, Jiří *see* Kondrat'ev, V. A.; et al., 90c:35128
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- Ames, W. F. *see* Rogers, Colin, 90i:35001
- Davis, Julian L. ★ Wave propagation in solids and fluids. 90d:73018
- Ermakov, S. M. (with Nekrutkin, V. V.; Sipin, A. S.) ★ Random processes for classical equations of mathematical physics. 90k:60168
- Nekrutkin, V. V. *see* Ermakov, S. M.; et al., 90k:60168
- Rogers, Colin (with Ames, W. F.) ★ Nonlinear boundary value problems in science and engineering. 90i:35001
- Sipin, A. S. *see* Ermakov, S. M.; et al., 90k:60168

35Q05 Euler-Poisson-Darboux equation and generalizations

- Andreev, A. A. (with Senitskii, A. Yu.) A system of Euler-Poisson-Darboux equations. I. (Russian) (see 90i:00001)
- Beirão da Veiga, H. On the well-posedness of the Euler flow in bounded domains. 90m:35148
- Denisov, V. N. Stabilization of means of the solution of the Cauchy problem for hyperbolic equations in a space of negative curvature. 90d:35235
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- Wei, Guang Zu (with Yuan, Zhong Xin) Initial-boundary value problems for nonlinear Euler-Poisson-Darboux equations. (Chinese) 90d:35236
- Xu, Hong Lian On the singular Cauchy problems for a class of generalized Euler-Poisson-Darboux equations. (Chinese. English summary) 90i:35214
- Yuan, Zhong Xin *see* Wei, Guang Zu, 90d:35236

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- Dai, Zheng De *see* Yang, Guang Jun, 90c:35002
- Kingston, J. G. Spherical waves in odd-dimensional space. 90b:35134
- Kuz'min, A. T. (with Volkodavov, V. F.) The problem Δ_2 for an equation of hyperbolic type in a four-dimensional space. (Russian) (see 90i:00001)

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35Q10 Navier-Stokes equations [see also 76D05]

- Albeverio, S. (with Hoegh-Krohn, Raphael) Stochastic flows with stationary distribution for two-dimensional inviscid fluids. 90i:35215
- Antontsev, S. N. (with Díaz Díaz, Jesús Idefonso) The energy method and the localization of solutions of equations of continuum mechanics. 90h:35193
- Begue, C. (with Conca, C.; Murat, François; Pironneau, O.) Les équations de Stokes et de Navier-Stokes avec des conditions aux limites sur la pression. [Stokes and Navier-Stokes equations with boundary conditions on the pressure] 90j:35161
- Beirão da Veiga, H. On a linear nonelliptic system concerning the dynamic of stationary motions. (Italian summary) 90d:35237
- Existence results in Sobolev spaces for a stationary transport equation. 90d:35238
- On the incompressible limit of the compressible Navier-Stokes equations. 90h:35185
- Kato's perturbation theory and well-posedness for the Euler equations in bounded domains. 90d:35239
- Boundary-value problems for a class of first order partial differential equations in Sobolev spaces and applications to the Euler flow. 90d:35240
- Well-posedness and motion of inviscid fluids. 90h:35160
- Ben-Artzi, Matania The generalized Riemann problem for reactive flows. 90h:35189
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- Calderón, Calisto P. Existence of weak solutions for the Navier-Stokes equations with initial data in L^p . 90h:35199
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- Chan Tkhua Kha *see* Krein, S. G., 90m:35154
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- Choquin, Jean-Philippe (with Cottet, Georges-Henri) Sur l'analyse d'une classe de méthodes de vortex tridimensionnelles. (English summary) [On the analysis of three-dimensional vortex methods] 90a:35186
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- Cruzeiro, Ana Bela Solutions et mesures invariantes pour des équations d'évolution stochastiques du type Navier-Stokes. (English summary) [Solutions and invariant measures for Navier-Stokes stochastic evolution equations] 90h:35161
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- Symmetries of partial differential equations ★ Symmetries of partial differential equations. Part I. (Not in MR)
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- ★ Symmetries of partial differential equations. Part III. (Not in MR)
- Symmetries of partial differential equations ★ Symmetries of partial differential equations. Part I. (Not in MR)
- ★ Symmetries of partial differential equations. Part II. (Not in MR)
- ★ Symmetries of partial differential equations. Part III. (Not in MR)

Workshop:

- Integrable Systems and Applications ★ Integrable systems and applications. 90i:35002

35Q99 None of the above, but in this section

- Davlyatov, A. On the first boundary value problem for a system of equations of Hodgkin-Huxley type. (Russian) 90j:35186
- Fraguela Collar, Andrés On the problem of the motion of an ideal fluid in an unbounded elastic basin. 90b:35227
- Ghannam, Lahcen Existence et unicité de la solution pour un système de deux E.D.P. (English summary) [Existence and uniqueness of the solution for a system of two PDEs] 90k:35257
- Henry, Jacques (with Louro, Bento) Singular perturbation theory applied to the electrochemistry equations in the case of electroneutrality. 90g:35156
- Jiang, Song Global existence and asymptotic behavior of smooth solutions in one-dimensional nonlinear thermoelasticity. 90f:35194
- Lashchiner, V. K. Roots of the Rayleigh-Lamb equation in stationary problems. (Russian) (*see* 90h:00010)
- Liu, Bao Ping (with Zhao, Bi) Multiple periodic plane wave solutions for the FitzHugh-Nagumo nerve conduction equations. (Chinese. English summary) 90i:35273
- Louro, Bento *see* Henry, Jacques, 90g:35156
- Mu, Mu Necessary and sufficient conditions for existence of global classical solutions of two-dimensional Euler equations in time-dependent domain. 90c:35190
- Oestreich, D. Ein Problem der elektrochemischen Bearbeitung mit gekrümmter Katode. [A problem in electrochemical machining with curved cathode] (Not in MR)
- Orlov, V. P. (with Sobolevskii, P. E.) Solvability of a one-dimensional problem in thermoelasticity. 90d:35282
- Rochet, Jean-Charles Sur quelques équations aux dérivées partielles de l'économie mathématique. [On some partial differential equations in mathematical economics] 90i:35258
- Singh, Shesh Nath (with Tripathi, D. D.) Hodograph transformations in hydromagnetic second grade fluid. 90m:35193
- Sobolevskii, P. E. *see* Orlov, V. P., 90d:35282
- Sun, Yu Shan Weak solutions of the homogeneous boundary value problem for a ferromagnetic chain. (Chinese. English summary) 90c:35159
- Tripathi, D. D. *see* Singh, Shesh Nath, 90m:35193
- Zhao, Bi *see* Liu, Bao Ping, 90i:35273
- Zheng, Song Mu Global solutions to thermomechanical equations with nonconvex Landau-Ginzburg free energy. 90c:35191
- Edelstein-Keshet, Leah (with Ermentrout, George Bard) Models for branching networks in two dimensions. 90m:92017
- Ermentrout, George Bard *see* Edelstein-Keshet, Leah, 90m:92017
- Franchi, F. (with Straughan, Brian) Convection, stability and uniqueness for a fluid of third grade. 90a:76044
- Fushchich, V. I. (with Zhdanov, R. Z.) Symmetry and exact solutions of nonlinear spinor equations. 90f:81046
- Gedalin, K. E. *see* Malomed, B. A., 90k:76054
- Hardt, R. (with Kinderlehrer, D.) Mathematical questions of liquid crystal theory. 90h:49033
- Holm, D. D. (with Long, Bruce) Lyapunov stability of ideal stratified fluid equilibria in hydrostatic balance. 90a:76094
- Ikehata, Masaru (with Nakamura, Gen) Decaying and nondecaying properties of the local energy of an elastic wave outside an obstacle. 90a:35129
- Khenkin, G. M. (with Polterovich, V. M.) Nonlinear evolution equation for the distribution of technologies according to efficiency levels. 90m:90083
- Kinderlehrer, D. *see* Hardt, R., 90h:49033
- Lakshmikantham, V. (with Leela, S.; Martynuk, A. A.) ★ Stability analysis of nonlinear systems. 90b:34073
- Laurence, Peter (with Stredulinsky, Edward) A survey of recent regularity results for second order queer differential equations. 90a:35036
- Laurent'ev, M. M., Jr. Estimates for solutions of an equation of variable type. (Russian) 90j:35125
- Leela, S. *see* Lakshmikantham, V.; et al., 90b:34073
- Li, Da Qian (with Zhao, Yan Chun) Global discontinuous solutions to a class of discontinuous initial value problems for the system of isentropic flow and applications. 90d:35180
- Liang, Xi Ting A note on the existence of nontrivial solutions for a class of elliptic Euler equations. (Chinese. English summary) 90b:35006
- Lin, Fang-Hua Nonlinear theory of defects in nematic liquid crystals; phase transition and flow phenomena. 90g:82076
- Lin, Jun Min On the harmonic maps from \mathbb{R}^2 into H^2 . 90f:58038
- Logan, J. David (with Woerner, Edwin L.) Sensitivity of self-similar ZND waves in condensed media. 90g:80016
- Long, Bruce *see* Holm, D. D., 90a:76094
- (Madzharova, Yana) *see* Nirenberg, L., 90c:58002
- Makino, Tetsu Les solutions à support compact de l'équation du mouvement des atmosphères d'étoiles. (English summary) [Compactly supported solutions of the equation of motion of stellar atmospheres] 90i:85004
- Malomed, B. A. (with Gedalin, K. E.) Stability of cellular wave structures in oscillatory pattern-forming systems near onset. 90k:76054
- Martynuk, A. A. *see* Lakshmikantham, V.; et al., 90b:34073
- Mascagni, Michael An initial-boundary value problem of physiological significance for equations of nerve conduction. 90g:92026
- Mulone, G. *see* Rionero, S., 90a:76092
- Nakamura, Gen *see* Ikehata, Masaru, 90a:35129
- Nirenberg, L. Mathematical methods in nonlinear problems. (Bulgarian) 90c:58002
- Pessa, Eliano A mathematical method of global analysis of neural nets. 90f:92014
- Polterovich, V. M. *see* Khenkin, G. M., 90m:90083
- Popkov, V. Yu. *see* Bakirov, I. M., 90b:58037
- Presutti, E. *see* De Masi, A.; et al., 90h:60096
- Ramírez, Rafael (with Serpa, Hernán) On Saint-Venant's equations. 90a:73028
- Rcheulishvili, G. L. (with Savell'ev, M. V.) Multidimensional nonlinear systems connected with the Grassmann manifolds $B1$ and $D1$. (Russian) 90b:58273
- Reed, Michael C. *see* Blum, J. J., 90g:92012
- Rionero, S. (with Mulone, G.) A nonlinear stability analysis of the magnetic Bénard problem through the Lyapunov direct method. 90c:76092
- Rogers, Colin Elliptic warm-core theory: the pulsar. 90c:76048
- Sandrakov, G. V. ★ Средние линеаризованной системы гидродинамики с малой вязкостью и скоростью звука в смеси. (Russian) [Averaging a linearized system of hydrodynamics with small viscosity, and the speed of sound in mixtures] 90f:76050
- Savell'ev, M. V. *see* Rcheulishvili, G. L., 90b:58273
- Scacciatelli, E. *see* De Masi, A.; et al., 90h:60096
- Serpa, Hernán *see* Ramírez, Rafael, 90a:73028
- Shi, Zong Bao A retarded problem for a system of quasilinear equations. (Chinese. English summary) 90i:35275
- Straughan, Brian *see* Franchi, F., 90a:76044
- Stredulinsky, Edward *see* Laurence, Peter, 90a:35036
- Takayama, Nobuki Holonomic solution of Weisner's operator. 90m:35009
- Venturino, Ezio Nonlinearly interacting age-dependent populations. 90a:92057
- Verdi, C. (with Visintin, Augusto) Numerical approximation of the Preisach model for hysteresis. (French summary) 90d:47067
- Visintin, Augusto *see* Verdi, C., 90d:47067
- Woerner, Edwin L. *see* Logan, J. David, 90g:80016
- Zhang, Jian Blow-up of solutions of nonlinear pseudo-hyperbolic equations of generalized nerve conduction type. 90m:35037
- Zhao, Yan Chun *see* Li, Da Qian, 90d:35180
- Zhdanov, R. Z. *see* Fushchich, V. I., 90f:81046
- Zupnik, B. M. Solution of harmonic equations in gauge theories. 90d:81095

35Rxx Miscellaneous topics {For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15.}

35R05 Equations with discontinuous coefficients or data

- Peng, Yue Jun A necessary and sufficient condition for well-posedness of boundary value problems for a class of partial differential equations. (Chinese. English summary) 90b:35228

Items with secondary classifications in 35R05

- Avellaneda, Marco (with Lin, Fang-Hua) Compactness methods in the theory of homogenization. II. Equations in nondivergence form. **90c:35035**
- Chalkovskaya, N. E. A uniqueness theorem for the solution of the Cauchy problem for degenerate parabolic equations with discontinuous coefficients. **90c:35127**
- Chistyakov, V. M. Smoothness of solutions of quasilinear parabolic systems with nondifferentiable coefficients. **90c:35042**
- Cibelli, Andris Solvability of elliptic variational inequalities with discontinuous nonlinearities. (Russian) **90h:35108**
- Donato, Santi A normal derivative problem for a class of parabolic equations in several variables with discontinuous coefficients. (Italian. English summary) **90i:35120**
- Feyel, Denis (with de La Pradelle, Arnaud) Étude de l'équation $\frac{1}{2}\Delta u - u\mu = 0$ où μ est une mesure positive. [Study of the equation $\frac{1}{2}\Delta u - u\mu = 0$, where μ is a positive measure] **90j:35074**
- Kobayasi, Kazuo A semilinear parabolic equation in L^1 and the case where initial data and forcing terms are measures. **90m:35009**
- de La Pradelle, Arnaud see Feyel, Denis, **90j:35074**
- Lin, Fang-Hua see Avellaneda, Marco, **90c:35035**
- Mirzazadeh, V. M. Boundary and initial values of the solutions of a second-order parabolic equation with discontinuous coefficients. (Russian. English and Azerbaijani summaries) **90c:35104a**
- Boundary values and initial values of the solutions of a second-order parabolic equation with discontinuous coefficients. **90c:35104b**
- Orynbasarov, M. O. A boundary value problem for the heat equation with discontinuous coefficients when the boundary conditions contain higher-order derivatives. (Russian. Kazakh summary) **90d:35122**
- Ospanov, K. N. Properties of solutions of parabolic equations with nonsmooth coefficients. (Russian) (see **90h:00003**)
- Simanca, Santiago R. A mixed boundary value problem for the Laplacian. **90a:35059**
- Transirico, Maria (with Troisi, Mario) The Dirichlet problem for elliptic equations with discontinuous coefficients. (Italian. English summary) **90m:35056**
- (with Troisi, Mario) A class of second-order elliptic equations in unbounded open sets. (Italian. English summary) **90c:35063**
- Troisi, Mario see Transirico, Maria, **90c:35063** and **90m:35056**
- Wu, De Quan Existence of continuous solutions to degenerate quasilinear parabolic equations with coefficient singularities. (Chinese) **90c:35097**

35R10 Difference-partial differential equations, equations with time lag

- Andreev, A. A. (with Senitskii, A. Yu.) The Cauchy problem for the Euler-Poisson-Darboux equation of special form with deviating argument. (Russian) (see **90a:00007**)
- Bryczycki, Stanislaw An estimate for the rate of convergence of successive Chaplygin approximations for a parabolic system of functional-differential equations. (Russian) **90i:35274**
- On an estimate for the modulus of the solution of a nonlinear system of functional-differential equations of parabolic type. (Russian) **90j:35187**
- Ding, Chong Wen A class of Volterra systems of diffusion equations with time lag. (Chinese. English summary) **90f:35195**
- Grimmer, R. (with Lenczewski, R.; Schappacher, W.) Well-posedness of hyperbolic equations with delay in the boundary conditions. **90h:35228**
- Kamont, Zdzislaw (with Turo, Jan) Generalized solutions of boundary value problems for quasilinear systems with retarded argument. (Serbo-Croatian summary) **90c:35192**
- Laurence, Peter (with Stredulinsky, Edward) A bootstrap argument for Grad generalized differential equations. **90j:35188**
- Lenczewski, R. see Grimmer, R.; et al., **90h:35228**
- Malec, Marian (with Mosurski, Ryszard) Strong maximum principle for nonlinear differential-functional operators in unbounded sets. (Italian summary) **90f:35196**
- Martin, Robert H., Jr. (with Smith, H. L.) Abstract functional-differential equations and reaction-diffusion systems. **90m:35194**
- Mosurski, Ryszard see Malec, Marian, **90f:35196**
- Schappacher, W. see Grimmer, R.; et al., **90h:35228**
- Senitskii, A. Yu. see Andreev, A. A., (90a:00007)
- Shi, Zong Bao A retarded problem for a system of quasilinear equations. (Chinese. English summary) **90i:35275**
- Smith, H. L. see Martin, Robert H., Jr., **90m:35194**
- Stredulinsky, Edward see Laurence, Peter, **90j:35188**
- Turo, Jan Local generalized solutions of mixed problems for quasilinear hyperbolic systems of functional partial differential equations in two independent variables. **90g:35157**
- see also Kamont, Zdzislaw, **90c:35192**
- Vogl, Fritz Über das Cauchysche Anfangswertproblem für eine Klasse linearer partieller Funktional-Differentialgleichungen. [On the Cauchy initial value problem for a class of linear partial functional-differential equations] **90h:35229**
- Wu, Jian Hong Semigroup and representation for a class of partial differential equations with infinite delay. (see **90j:00016**)
- Xiang, Xiao Ling Existence of solutions to a class of partial differential equations with delays. (Chinese) **90h:35229**
- Yia, Hong Ming The classical solutions for nonlinear parabolic integrodifferential equations. **90a:35215**
- Yoshida, Norio On the zeros of solutions of hyperbolic equations of neutral type. **90k:35259**

Items with secondary classifications in 35R10

- Antman, Stuart S. The paradoxical asymptotic status of massless springs. **90b:35194**
- Imanov, M. I. (with Ved', Yu. A.) A first-order partial differential equation with an integral coefficient. **90i:35066**
- Memory, Margaret C. Bifurcation and asymptotic behavior of solutions of a delay-differential equation with diffusion. **90m:35029**
- Nia, Pei Ping On the stability of the equation $u_t = \Delta u - f(u(t - \tau, x), u(t, x))$. (Chinese. English summary) **90m:35030**

- Rozhkovskaya, T. N. One-sided problems with convex constraints for quasilinear parabolic operators. **90i:35136**
- Sablík, Marceľ Conditional iteration semigroups. **90h:39021**
- Sakhtaganova, A. T. On the presence of peaking in the solution of a problem with delay. (Russian) **90j:35039**
- Ved', Yu. A. see Imanov, M. I., **90i:35066**
- Vogt, W. On finite-difference methods for parabolic functional-differential equations on unbounded domains. (see **90i:65008**)

35R15 Equations on function spaces [see also 58D25]

- Bendikov, A. D. (with Pavlov, I. V.) On the Poisson equation on the infinite-dimensional torus. **90c:35160**
- Bogdanaskii, Yu. V. The Cauchy problem for the heat equation with a nonregular elliptic operator. **90j:35189**
- Dyachko, O. D. Solution of a parabolic equation for measures on the Hilbert manifold. (Russian) (see **90m:00040**)
- Frolov, N. N. The structure of fundamental functions of infinite-dimensional differential operators. (Russian) **90j:35190**
- Gadzhiev, G. A. On the multiparameter spectral theory of linear and nonlinear differential operators. (Russian) **90d:35283**
- Leha, Gottlieb On diffusion semigroups generated by semi-elliptic differential operators in infinite dimensions. **90g:35158**
- Pavlov, I. V. see Bendikov, A. D., **90c:35160**
- Polishchuk, E. M. ★ Continual means and boundary value problems in function spaces. **90a:35216**
- ★ Continual means and boundary value problems in function spaces. **90m:35195**
- Shakhbayan, R. L. Infinite-dimensional elliptic operators on manifolds with boundary. (Russian) **90c:35193**
- A general initial-boundary value problem for higher-order infinite-dimensional parabolic equations. (Russian) **90a:35217**
- Szaz, Á. An application of an implicit function theorem to a partial differential equation. **90i:35276**
- (Vershik, A. M.) see Polishchuk, E. M., **90a:35216** and **90m:35195**
- Zemlyanskii, A. M. Existence of analytic solutions of linear differential equations for measures on a Hilbert space. (Russian) **90d:35284**

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- Cannarsa, P. Regularity properties of solutions to Hamilton-Jacobi equations in infinite dimensions and nonlinear optimal control. **90c:49053**
- (Da Prato, G.) see Métivier, Michel, **90a:60112**
- Gaisinskii, M. D. Application of Wiener integrals to the study of selfadjointness of the Schrödinger operator. (Russian) **90i:47051**
- Khrennikov, A. Yu. Infinite-dimensional pseudodifferential operators. **90c:47046**
- Lions, P.-L. Viscosity solutions of fully nonlinear second-order equations and optimal stochastic control in infinite dimensions. I. The case of bounded stochastic evolutions. **90j:35029**
- Métivier, Michel ★ Stochastic partial differential equations in infinite-dimensional spaces. **90a:60112**
- Schmeelk, John Infinite-dimensional Fock spaces and an associated generalized Laplacian operator. **90g:46058**
- Sękowski, Magdalena Méthode des fonctionnelles caractéristiques de la mécanique des milieux continus. (Polish summary) [The method of characteristic functionals in continuum mechanics] **90h:73011**
- Zhang, Gong Qing On the periodic nonlinearity and the multiplicity of solutions. **90i:58036**
- Zhu, Ben Ren Some inverse problems for Hamiltonian systems. (Chinese. English summary) **90c:35228**

35R20 Operator equations, general [see also 34Gxx, 47A50, 47H15]

- Acaül, J. (with Gronau, D.) Some differential equations related to iteration theory. **90h:35230**
- Asano, Kiyoshi A note on the abstract Cauchy-Kowalewski theorem. **90b:35231**
- D'Ancona, Piero Gevrey well-posedness of an abstract Cauchy problem for weakly hyperbolic type. **90d:35285**
- Gronau, D. see Acaül, J., **90h:35230**
- Koike, Minoru An abstract nonlinear Cauchy problem with a vector valued time variable. **90j:35191**
- Laurençev, M. M. Evolution equations and the Goursat problem for a telegraph equation with an operator coefficient. **90j:35192**
- Malovichko, V. A. Boundary value problems for systems of differential equations, with operator coefficients, of parabolic and of hyperbolic type. (Russian. English summary) **90c:35163**
- Boundary value problems for systems of differential equations with operator coefficients of hyperbolic type. (Russian. English summary) **90g:35159**
- Rebbani, Faouzia "Problèmes aux limites pour une équation différentielle opérationnelle d'ordre impair dans le rectangle. [Boundary value problems for an operator-differential equation of odd order in the rectangle] **90c:35194**
- Ricceri, Biagio Sur les solutions classiques du problème de Darboux pour certaines équations aux dérivées partielles sous forme implicite dans les espaces de Banach. (English summary) [On classical solutions of the Darboux problem for certain implicit partial differential equations in Banach spaces] **90b:35232**
- Sushch, V. N. Control in nonlocal boundary value problems. **90h:35233**
- Strelitskiy, G. A. A problem of Showalter. (Russian) **90c:35161**
- Manifolds of solutions of a class of evolution and dynamic equations. **90c:35195**
- Ugowski, Henryk On the Cauchy problem for a semilinear system of parabolic equations in a Banach space. **90a:35218**
- Vityuk, N. Ya. Solvability of a problem with operator coefficients. (Russian) **90c:35162**

Winiarska, Teresa Multiple differentiability of solutions with respect to parameter. 90h:35234

— ★ Differential equations with parameter. 90e:35164

Yataev, N. M. Solvable extensions for third-order degenerate operator equations. (Russian. Kazakh summary) 90j:35193

Items with secondary classifications in 35R20

Acael, J. (with Gronau, D.) Iteration, translation, commuting, and differential equations. 90h:39022

Amann, Herbert Remarks on quasilinear parabolic systems. 90k:35132

Aronio, Alberto Hyperbolic equations in Banach scales. 90k:35147

Babaev, Azad A. Embedding theorems in some weighted vector-valued spaces. Degenerate coercive boundary value problems. (Russian. English and Azerbaijani summaries) 90k:46066

Barbu, Viorel A semigroup approach to Hamilton-Jacobi equation in Hilbert space. (Romanian summary) 90f:47100

Bokalo, N. M. A problem without initial conditions for some classes of nonlinear parabolic equations. (Russian. English summary) 90m:35099

Brykalo, S. A. Nonlinear boundary value problems and the existence of stationary states of heating control systems. 90k:47124

Chow, Shui-Nee (with Deng, Bo) Bifurcation of a unique stable periodic orbit from a homoclinic orbit in infinite-dimensional systems. 90e:58115

Deng, Bo see Chow, Shui-Nee, 90e:58115

Gromas, D. see Acael, J., 90h:39022

Kawarada, Hideo (with Koshigoe, Hideyuki) Nonlinear evolution equations of Moser's type. 90a:35113

Koshigoe, Hideyuki see Kawarada, Hideo, 90a:35113

Laskin, Mitchell (with Sell, G. R.) Approximation theories for inertial manifolds. 90k:35032

Ouyang, Liang On singular perturbation problems for a class of operator differential equations. (Chinese) 90f:34095

Rzepecki, Bogdan On hyperbolic partial differential equations in Banach spaces. (Italian summary) 90d:35187

Sauer, Niko Dynamical processes associated with dynamic boundary conditions for partial differential equations. 90k:35114

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Shakhmuradov, V. B. Coercive boundary value problems for degenerate anisotropic equations. 90d:35114

Shi, Shu Zhong Nagumo type condition for partial differential inclusions. 90h:34021

Stojanovic, Srdjan (with Yong, Jiong Min) Optimal switching for partial differential equations. I, II. 90e:49054

Swiridyuk, G. A. Solvability of the Cauchy problem for an operator equation of S. L. Sobolev type. (Russian) (see 90d:00069)

Tikilainen, A. A. A method for solving the Cauchy problem for a class of equations of mathematical physics. (Russian) 90k:35254

Tutschke, Wolfgang ★ Solution of initial value problems in classes of generalized analytic functions. 90k:35006

Umarov, Kh. G. The Cauchy problem for a perturbed hyperbolic equation with constant operator coefficients. (Russian) 90g:35090

Yong, Jiong Min see Stojanovic, Srdjan, 90e:49054

35R25 Improperly posed problems

Amonov, B. K. An ill-posed problem without initial conditions. (Russian) 90d:35286

Payne, L. E. On stabilizing ill-posed problems against errors in geometry and modeling. 90k:35277

Shanidze, Z. G. Well-posedness of automatic control problems. (Russian. English and Georgian summaries) 90h:35230

Temirbulatov, S. I. A method for studying conditionally well-posed problems. (Russian) 90k:35260

Items with secondary classifications in 35R25

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Danilov, V. G. Global formulas for solutions of quasilinear parabolic equations with a small parameter and ill-posedness. (Russian) 90j:35115

Deng, Zhi Bing On the well-posedness of the first class of elliptic systems. (Chinese. English summary) 90c:35069

(Kafarov, V. V.) see Pogorelov, A. G., 90h:35244

Kaliaskarova, T. R. A study of conditional well-posedness of boundary value problems for second-order model parabolic systems. (Russian. English summary) 90h:35115

Louis, Alfred Karl ★ Inverse und schlecht gestellte Probleme. (German) [Inverse and ill-posed problems] 90g:65075

Malyshev, Igor On the unique restoration of the coefficient in a wave equation. 90g:35163

Maslov, V. P. Resonance ill-posedness. (Russian) 90g:65077

Pogorelov, A. G. ★ Обратные задачи нестационарной химической кинетики. (Russian) [Inverse problems of nonstationary chemical kinetics] 90h:35244

Taniguchi, Masaru C^∞ ill-posedness of the mixed problem for hyperbolic equations of second order. 90f:35120

35R30 Inverse problems (undetermined coefficients, etc.)

Abdulkrimov, L. Sh. Determination of the right-hand side of an abstract parabolic equation with additional conditions. (Russian) 90g:35160

Ablabekov, B. S. One-dimensional inverse problems for an equation of the filtration of fluids in fissured rock, and approximate solution methods. (Russian) 90d:35287

Alifanov, O. M. (with Artyukhin, E. A.; Rumanov, S. V.) ★ Экстремальные методы решения некорректных задач и их приложения к обратным задачам теплообмена. (Russian) [Extremal methods for solving ill-posed problems and their applications to inverse problems of heat exchange] 90a:35219

Angell, T. S. (with Kleinman, R. E.; Kok, B.; Roach, G. F.) A constructive method for identification of an impenetrable scatterer. 90e:35165

Anikonov, Yu. E. (with Bubnov, B. A.) Control problems and inverse problems. 90c:35196

Aphasov, S. O. (with Yakhno, V. G.) An inverse problem of uncoupled dynamic thermoelasticity. (Russian) 90a:35220

Arnold, E. M. Coefficient identification for a divergence form partial differential equation. 90f:35197

Artyukhin, E. A. see Alifanov, O. M.; et al., 90a:35219

Baev, A. V. Solution of an inverse boundary value problem for the wave equation with a discontinuous coefficient. 90h:35235

Bakanov, G. B. see Kabanikhin, S. I., 90g:35162

Bakhsheev, Sh. M. An inverse problem of determining volume forces and the density of heat sources in thermoelasticity. (Russian. English and Azerbaijani summaries) 90k:35278

Barashkov, A. S. On the uniqueness of the solution of the problem of the determination of the coefficient of the Helmholtz equation. 90k:35231

Belisher, M. I. On a problem of M. Kac on the reconstruction of the shape of a domain from the spectrum of the Dirichlet problem. (Russian. English summary) 90c:35197

— Wave bases in multidimensional inverse problems. (Russian) 90g:35161

Bibbbaum, Joachim Optimisation methods for an inverse problem with time-harmonic electromagnetic waves: an inverse problem in electromagnetic scattering. 90h:35232

Borisovich, L. E. see Kolesnikov, P. M.; et al., 90m:35199

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Bubnov, B. A. Existence and uniqueness of the solution of inverse problems for parabolic and elliptic equations. (Russian) 90f:35198

— ★ К вопросу о разрешимости многомерных обратных задач для гиперболических уравнений. (Russian) [On the problem of the solvability of multidimensional inverse problems for hyperbolic equations] 90h:35236

— Solvability of an inverse problem for the wave equation. (Russian) 90f:35199

— An inverse problem for a parabolic equation and the Cauchy problem for some classes of evolution equations in classes of functions of finite smoothness. 90a:35221

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Cannon, John R. (with Lin, Yanping) Determination of parameter $p(t)$ in Hölder classes for some semilinear parabolic equations. 90a:35222

— (with Yin, Hong Ming) A uniqueness theorem for a class of nonlinear parabolic inverse problems. 90a:35223

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35R45 Differential inequalities

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35R50 Differential equations of infinite order

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Lê Quang Trung see Nguyễn Minh Chu'ng, 90b:35251

Nguyễn Minh Chu'ng (with Lê Quang Trung) Degenerate nonlinear elliptic differential equations of infinite order in weighted Sobolev-Orlicz spaces. (Russian)

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35R60 Equations and systems with randomness

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- Gerodtsov, V. A. Diffusive spreading of localized hydrodynamic perturbations under the action of random forces. **90a:76056**
- Grasman, Johan Asymptotic analysis of nonlinear systems with small stochastic perturbations. **90g:60053**
- Griego, Richard J. (with Korzeniowski, Andrzej) On principal eigenvalues for random evolutions. **90b:60110**
- Gupta, Vijay K. see Bhattacharya, Rabindra Nath; et al., **90f:35113**
- Gyöngy, I. On the approximation of stochastic partial differential equations. I. **90k:60117**
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- Hausmann, U. G. (with Pardoux, É.) Stochastic variational inequalities of parabolic type. **90k:60119**
- Hoegh-Krohn, Raphael see Albeverio, S., **90i:35215**
- Kazimierz, P. On the stochastic inverse problem for the heat conduction equation. **90b:80004**
- Korzeniowski, Andrzej see Griego, Richard J., **90b:60110**
- Kotulski, Zbigniew Equations for the characteristic functional and moments of the stochastic evolutions with an application. **90g:60058**
- Kravvaritis, D. (with Papageorgiou, Nikolaos S.) A random nonlinear multivalued evolution equation in Hilbert space. **90m:34032**
- Kremer, Arthur J. Reciprocal diffusions and stochastic differential equations of second order. **90b:60066**
- Kuo, Hung-Ju (with Trudinger, Neil S.) Linear elliptic difference inequalities with random coefficients. **90m:65176**
- Martinelli, Fabio (with Scoppola, Elisabetta) Small random perturbations of dynamical systems: exponential loss of memory of the initial condition. **90c:58166**
- Métivier, Michel ★ Stochastic partial differential equations in infinite-dimensional spaces. **90k:60112**
- Molchanov, S. A. (with Piterbarg, L. I.) Averaging in a problem of turbulent diffusion. (Russian) **90i:35151**
- Nitsche, Ludwig C. (with Brenner, Howard) Eulerian kinematics of flow through spatially periodic models of porous media. **90g:76090**
- Nualart, D. (with Zakai, Moshe) Generalized Brownian functionals and the solution to a stochastic partial differential equation. **90m:60076**
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- Orsingher, Enzo On the maximum of Gaussian Fourier sine series connected with random vibrations. **90b:35140**
- Ozawa, Shin Approximation of Green's function in a region with many obstacles. **90i:58197**
- Papageorgiou, Nikolaos S. see Kravvaritis, D., **90m:34032**
- Papanicolaou, G. Wave propagation and heat conduction in random media. **90a:78009**
— Waves in one-dimensional random media. **90j:82004**
- Pardoux, É. see Hausmann, U. G., **90k:60119**
- Piterbarg, L. I. see Molchanov, S. A., **90i:35151**
- Reimers, Mark One-dimensional stochastic partial differential equations and the branching measure diffusion. **90m:60077**
- Riganti, R. see Bonzani, I., **90b:60075**
- Romanenko, E. Yu. (with Sharikovskii, A. N.) Self-stochasticity in deterministic systems. (Russian. English summary) **90m:58139**
- Scoppola, Elisabetta see Martinelli, Fabio, **90c:58166**
- Sekowska, Magdalena Méthode des fonctionnelles caractéristiques de la mécanique des milieux continus. (Polish summary) [The method of characteristic functionals in continuum mechanics] **90h:73011**
- Sharikovskii, A. N. see Romanenko, E. Yu., **90m:58139**
- Sobczyk, Kazimierz ★ Stochastic wave propagation. **90m:60078**
- Stroock, Daniel W. Malliavin calculus and its applications to partial differential equations. (Chinese. English summary) **90a:60104**
- Trudinger, Neil S. see Kuo, Hung-Ju, **90m:65176**
- Walker, Homer F. see Bhattacharya, Rabindra Nath; et al., **90f:35113**
- Zakai, Moshe see Nualart, D., **90m:60076**

35R99 None of the above, but in this section

- Klimenko, S. S. see Vityuk, A. N., **90c:35175**
- Teodora, Georgeta Le problème de Picard pour une équation aux dérivées partielles multivoque. (Romanian summary) [The Picard problem for a multivalued partial differential equation] **90f:35217**
— Approximation of the solution of the Darboux problem for the equation $\partial^2 z / \partial x \partial y \in F(x, y, z)$. **90f:35218**
- Vityuk, A. N. (with Klimenko, S. S.) The averaging of partial differential inclusions with a measurable right-hand side. (Russian) **90c:35175**

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- Canavati, José A. (with Fetter, Helga) Decomposition of solenoidal vector fields. (Spanish) **90d:35065**
- Fetter, Helga see Canavati, José A., **90d:35065**
- Klimov, V. S. On the problem of periodic solutions of operator differential inclusions. **90h:47109**
- Kitarev, D. V. Functional integral and the Feynman-Kac formula in superspace. **90j:58018**
- Panchenko, A. N. Extremal boundary layers. (Russian) **90g:49018**
- Teodora, Georgeta The Cauchy problem for a Lipschitzian hyperbolic multivalued equation. **90m:35131**
— Continuous selections for multifunctions satisfying the Carathéodory type conditions. The Goursat problem associated to a multivalued equation. **90m:35133**
— The Picard problem associated with a Lipschitzian hyperbolic multivalued equation. (Romanian summary) **90m:35132**

35Sxx Pseudodifferential operators [see also 47G05, 58G15]

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- Rempel, S. (with Schulze, B.-W.) ★ Asymptotics for elliptic mixed boundary problems. **90b:35083**
- Schulze, B.-W. see Rempel, S., **90b:35083**
- ### 35S05 General theory
- Berhanu, S. Hypo-analytic pseudodifferential operators. **90c:35176**
— Microlocal hypo-analyticity and hypo-analytic pseudodifferential operators. **90c:35177**
- Boev, Toshko A class of pseudodifferential operators. (Russian summary) **90c:35178**
- Bony, Jean-Michel (with Lerner, N.) Quantification asymptotique et microlocalisations d'ordre supérieur. I. [Asymptotic quantization and higher-order microlocalizations. I] **90k:35276**
- Dencker, N. The propagation of singularities for pseudo-differential operators with self-tangential characteristics. **90i:35297**
- Goise, F. Quelques résultats de moyennisation pour les équations aux dérivées partielles. [Some averaging results for partial differential equations] **90m:35214**
- Heffer, B. (with Nourrigat, J.) Remarques sur le principe d'incertitude. [Remarks on the uncertainty principle] **90b:35254**
- Hörmander, Lars Continuity of pseudo-differential operators of type 1, 1. **90a:35241**
- Hounie, Jorge ★ Introdução aos operadores pseudo-diferenciais. (Portuguese) [Introduction to pseudodifferential operators] **90d:35315**
- Ishikawa, Yasushi Remarks on transmission, antitransmission and antilocal properties for sums of stable generators. **90c:35206**
- Jiang, Lu Min Local regular solutions to analytic pseudodifferential equations of Fuchs type. (Chinese. English summary) **90i:35298**
- Kataoka, Kiyomi Quasipositivity for pseudodifferential operators and microlocal energy methods. **90c:35207**
- Lerner, N. Sufficiency of condition (ψ) for local solvability in two dimensions. **90a:35242**
— see also Bony, Jean-Michel, **90k:35276**
- Nishitani, Tatsuo Une classe d'opérateurs hyperboliques à caractéristiques multiples. (English summary) [A class of hyperbolic operators with multiple characteristics] **90c:35208**
- Nourrigat, J. see Heffer, B., **90b:35254**
- Pirio, Alain Calcul symbolique non linéaire pour une onde conormale simple. (English summary) [Nonlinear symbolic calculus for a simple conormal wave] **90c:35209**
- Podolskii, V. E. Regularized traces of some pseudodifferential operators on the circle. **90c:35210**
- Popelyukhin, A. S. Local solvability of pseudo-differential operators with double characteristics. **90i:35219**
- Roberts, Gary B. A necessary condition for the solvability of certain operators with multiple characteristics. **90i:35299**
- Rodino, Luigi Pseudodifferential operators with multiple characteristics and Gevrey classes. (see **90c:35003**)
- Tervo, J. On the spectra of singularities of pseudo-differential equations. **90f:35220**
- Uchikoshi, Keisuke Construction of the solutions of microhyperbolic pseudodifferential equations. **90a:35243**
- Umarov, S. R. On the well-posedness of systems of pseudodifferential equations with analytic symbols. (Russian) **90m:35215**
- Unterberger, A. Opérateurs pseudodifférentiels et relativité. [Pseudodifferential operators and relativity] (see **90d:35005**)
— L'analyse de Klein-Gordon. (English summary) [Klein-Gordon analysis] **90b:35255**
- #### Items with secondary classifications in 35S05
- Abdullah, Saleh (with Hussein, D.) Partially hypoelliptic pseudo-differential operators in spaces of generalized distributions. (Arabic summary) **90f:35042**
- Andreev, Aleksandr Sergeevich Spectral asymptotics for compact pseudodifferential operators on a Euclidean set. **90g:35122**
- Baaj, Saad Calcul pseudo-différentiel et produits croisés de C^* -algèbres. I. (English summary) [Pseudodifferential calculus and crossed products of C^* -algebras. I] **90a:46171**
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- Bourdaud, Gérard Une algèbre maximale d'opérateurs pseudo-différentiels de type 1, 1. [A maximal algebra of pseudodifferential operators of type 1, 1] **90k:47104**
— (with Meyer, Y.) Inégalités L^2 précises pour la classe $S_{\rho, \delta}^0$. (English summary) [Improved L^2 inequalities for the class $S_{\rho, \delta}^0$] **90h:47092**
- Cardoso, Fernando (with Mendoza, Ramón) The spectral distribution of a globally elliptic operator. **90b:35175**
- Chebotařev, A. M. see Konstantinov, A. A.; et al., **90b:35053**
- Chemin, Jean-Yves Interaction contrôlée dans les équations aux dérivées partielles non linéaires. (English summary) [Controlled interaction in nonlinear partial differential equations] **90j:35144**
- Cicognani, M. Existence, uniqueness and propagation of the regularity of the solution of the Cauchy problem for some strictly hyperbolic operators with Lipschitz coefficients with respect to time. (Italian. English summary) **90c:35105**
- Cummins, Thomas E. A pseudodifferential calculus associated to 3-step nilpotent groups. **90c:58176**
- Danilov, V. G. (with Zhevdanov, P. N.) Maslov's method for constructing combined asymptotics for h -pseudodifferential equations. **90i:35061**
- Dencker, N. The propagation of polarization in double refraction. **90d:58150b**
— On the propagation of polarization in conical refraction. **90d:58150a**
- Filippov, O. G. Reduction of pseudodifferential operators with bounded symbols to operators over C^* -algebras on compact manifolds. **90k:58219**
— see also Mishchenko, A. S., **90m:58206**
- Fulling, S. A. (with Kennedy, Gerard) The resolvent parametrix of the general elliptic linear differential operator: a closed form for the intrinsic symbol. **90b:58260**
- Gérard, Patrick Regularization by averaging for solutions of partial differential equations. **90k:35051**
- (Hoksbjerg, R. A. M.) see Plamenetskii, B. A., **90h:47098**
- Hussein, D. see Abdullah, Saleh, **90f:35042**

- Kajitani, Kunihiko (with Wakabayashi, Seichiro) Microhyperbolic operators in Gevrey classes. 90h:35013
- Kennedy, Gerard see Felling, S. A., 90h:58260
- Khrennikov, A. Yu. Superanalysis: theory of generalized functions and pseudodifferential operators. (Russian. English summary) 90f:58019b
- Infinite-dimensional pseudodifferential operators. 90e:47046
- Functional superanalysis. 90f:58019a
- Kochubei, A. N. Parabolic pseudodifferential equations, hypersingular integrals and Markov processes. 90c:60048
- Konstantinov, A. A. (with Maslov, V. P.; Chebotarev, A. M.) Drift of boundary conditions for partial differential equations. 90h:35053
- Kozhukhar', P. A. On the finiteness of the discrete spectrum of some matrix pseudodifferential operators. (Russian) 90j:47067
- Kutep, Nikolai D. see Popivanov, Pet' R., 90i:35005
- Lascar, Bernard Propagation des singularités Gevrey pour des opérateurs hyperboliques. [Propagation of Gevrey singularities for hyperbolic operators] 90e:35009
- Lewis, Jeff E. Layer potentials for elastostatics and hydrostatics in curvilinear polygonal domains. 90c:35005
- Li, De Ning The L^2 -boundedness of pseudo-differential operators with nonsmooth coefficient symbols. 90h:47097
- Lies, Otto (with Rodino, Luigi) Microlocal analysis for inhomogeneous Gevrey classes. 90h:35011
- Lyakhov, L. N. The Fourier-Bessel transform of a kernel of a singular integral operator that is generated by a generalized shift. (Russian) 90c:42024
- Maslov, V. P. see Konstantinov, A. A.; et al., 90h:35053
- Mendoza, Ramón see Cardoso, Fernando, 90h:35175
- Meyer, Y. see Bourdaud, Gérard, 90h:47092
- Mishchenko, A. S. (with Filippov, O. G.) Reduction of elliptic operators with almost periodic coefficients to operators on compact manifolds. (Russian) 90m:58206
- Mohamed, Abdérmane Comportement asymptotique, avec estimation du reste, de valeurs propres d'une classe d'opérateurs pseudo-différentiels sur \mathbb{R}^n . [Asymptotic behavior, with remainder estimates, of the eigenvalues of a class of pseudodifferential operators on \mathbb{R}^n] 90h:35202
- Päivrinta, L. (with Rempel, S.) A deconvolution problem with the kernel $1/|x|$ on the plane. 90e:47049
- Plamenevskii, B. A. ★ Algebras of pseudodifferential operators. 90h:47096
- (with Senichkin, V. N.) The spectrum of an algebra of pseudodifferential operators with piecewise smooth symbols. 90d:58151
- Popivanov, Pet' R. (with Kutep, Nikolai D.) On the existence, uniqueness and smoothness of the solutions of some classes of nonlinear partial differential equations. 90i:35005
- Rabinovich, V. S. The Fredholm property of pseudodifferential operators on \mathbb{R}^n in the scale of spaces $L_{2,p}$. 90h:47092
- Rempel, S. see Päivrinta, L., 90e:47049
- Rodino, Luigi see Lies, Otto, 90h:35011
- Sánchez-Calle, Antonio L^p estimates for degenerate elliptic equations. 90h:35105
- Senichkin, V. N. see Plamenevskii, B. A., 90d:58151
- Sohrab, Homayun H. Fredholm theory of pseudodifferential C^* -algebras on noncompact Riemannian manifolds. 90h:47109
- Su, Wei Yi Pseudodifferential operators in Besov spaces over local fields. 90h:47100
- Taira, Kazuaki ★ Diffusion processes and partial differential equations. 90m:60089
- Tervo, J. ★ Some algebras of Fourier series operators related to pseudo-differential operators. 90h:47134
- On $\mathcal{S}_{\mu,\lambda}$ -boundedness and compactness of linear pseudo-differential operators. (German and Russian summaries) 90h:47094
- On essential maximality of linear pseudo-differential operators. 90j:47071
- Tulovsky, Vladimir On the second subprincipal symbol of a pseudodifferential operator. 90h:58152
- Unterberger, A. Analyse harmonique et analyse pseudo-différentielle du cône de lumière. (English summary) [Harmonic analysis and pseudodifferential analysis of the light cone] 90h:58152
- Vallant, Jean Léon Conditions d'hyperbolicité pour les systèmes à multiplicité constante, de rang pouvant varier. [Hyperbolicity conditions for systems with constant multiplicity whose rank may vary] 90m:35114
- Wakabayashi, Seichiro see Kajitani, Kunihiko, 90h:35013
- Wendt, W. D. The reduced operators of singularly perturbed Wiener-Hopf matrices. 90h:47095
- Widom, Harold On a class of integral operators on a half-space with discontinuous symbol. 90m:47068
- Wojciechowski, Krzysztof P. On the Calderón projections and spectral projections of the elliptic operators. 90i:58187
- Wong, M. W. The spectrum of a one-dimensional pseudo-differential operator. 90d:47057
- Yabuta, Kōzō Sharp function estimates for a class of pseudo-differential operators. 90g:47095
- Yagdzhyan, K. A. Necessary conditions for the well-posedness of the Cauchy problem for operators with multiple characteristics. 90j:35005
- Yamazaki, Masao A quasi-homogeneous version of the microlocal analysis for nonlinear partial differential equations. 90d:35010
- The weighted L^p -boundedness of product-type pseudodifferential operators. 90j:47072
- Zelditch, Steven Selberg trace formulae, pseudodifferential operators, and geodesic periods of automorphic forms. 90f:11083
- Zhevandrov, P. N. see Danilov, V. G., 90i:35061

35S10 Initial value problems

- Danilov, V. G. Well-posedness of h -pseudodifferential equations in the class of asymptotics of exponential type. (Russian) 90c:35211
- Drin', Ya. M. see Eidel'man, S. D., 90i:35204
- Eidel'man, S. D. (with Drin', Ya. M.) On a theory of systems of parabolic pseudodifferential equations. (Russian. English summary) 90j:35204

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- Cattabriga, L. (with Mari, D.) Parametrix of infinite order on Gevrey spaces to the Cauchy problem for hyperbolic operators with one constant multiple characteristic. 90d:35169
- Gourdin, Daniel Problème de Cauchy faiblement hyperbolique. [The weakly hyperbolic Cauchy problem] 90a:35131
- Jian, Su Wen The Cauchy problem for a class of weakly hyperbolic pseudodifferential equations with singular coefficients. (Chinese) 90j:35129
- Kitavov, D. V. Functional integral and the Feynman-Kac formula in superspace. 90j:58018
- Mari, D. see Cattabriga, L., 90d:35169
- Mizohata, S. On the Cauchy problem for hyperbolic equations in C^∞ and Gevrey classes. 90c:35135
- Piriou, Alain Calcul symbolique non linéaire pour une onde conormale simple. (English summary) [Nonlinear symbolic calculus for a simple conormal wave] 90c:35209

35S15 Boundary value problems

- Doppel, Karl (with Jacob, Niels) On Dirichlet's boundary value problem for certain anisotropic differential and pseudo-differential operators. 90c:35212
- Esposito, Vincenzo (with Misernino, Dorian) Poisson kernel for a class of Grushin operators. (Italian) 90c:35179
- Jacob, Niels see Doppel, Karl, 90c:35212
- Kryakvin, V. D. A general boundary value problem for a domain with noncompact boundary in weighted Hölder spaces. (Russian) 90j:35205
- Lê Quang Trung see Nguyễn Minh Chu'o'ng, 90h:35277
- Misernino, Dorian see Esposito, Vincenzo, 90c:35179
- Nguyễn Minh Chu'o'ng (with Lê Quang Trung) On a nonelliptic problem for pseudodifferential operators of variable order. (Vietnamese. English summary) 90h:35277
- Savchenko, Ya. B. Multipliers in weighted Hölder spaces and some degenerate pseudodifferential equations. (Russian) (see 90a:00007)
- Existence of a solution of a pseudodifferential equation with degeneration in a weighted Sobolev space. (Russian) 90h:35262
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- Kurnyah, A. V. Stability of the trivial solution of a linear difference system with periodic coefficients. (Russian. English summary) 90g:39007
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- Ma, Wan Biao Exponential stability of the zero solution to linear difference systems with variable coefficients and variable delays. (Chinese) 90f:39008
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- Rachid, A. Robustness of discrete systems under structured uncertainties. (Not in MR)
- Ramsey, L. Thomas Best bounds for the stability of DARMA filters with constant coefficients. 90h:39011
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- Si, Li Geng (with Ma, Wan Biao) Global exponential stability of zero solutions to nonlinear time-varying discrete systems with variable time-delay. (Chinese) (Not in MR)
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- Tanaka, Toshiyuki (with Sato, Chikara) Stability domain of the second-order discrete oscillatory system with parametric excitation. 90c:39011
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- Yaz, Engin (with Niu, Xiaoru) Stability robustness of linear discrete-time systems in the presence of uncertainty. 90j:39004
- Zavier, S. K. (with Perevozchikov, A. G.) The direct Lyapunov method in studying the attraction of trajectories of finite-difference inclusions. (Russian) 90m:39015
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- Ch'en, Po Hsien (with Chou, Hsien Hsin) Optimal robustness via constrained controller in SISO discrete-time feedback systems. 90a:93090
- Cheng, Yuan Ji Partial stability of periodic linear systems. (Chinese. English summary) 90m:34101
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- Chuang, Yung T'ang (with Tung, Sheng Lung; Ho, Tai Cheng) Sufficient condition for asymptotic stability of discrete interval systems. 90f:93053
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- Fujimoto, Takao (with Krause, Ulrich) Asymptotic properties for inhomogeneous iterations of nonlinear operators. 90b:47119
- Gao, Wei Bing see Yu, Run Yi, (Not in MR)
- Gripenberg, Gustaf Stability of periodic solutions in thermostat control. 90h:93058
- Hammer, Jacob Robust stabilization of nonlinear systems. 90b:93095
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- Hsiao, Ch'i Huang see Chen, Chih Fan, 90h:93085
- Huang, Lin see Li, Zhong, 90j:93090
- Huang, Yong Nian (with Xi, Xiu Feng) Local stability of one-dimensional population models. The critical case: $f'(X) = \pm 1$. 90m:92058
- Johansson, Rolf Global Lyapunov stability and exponential convergence of direct adaptive control. (Not in MR)
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- Korenetskii, D. G. An algebraic criterion for absolute (with respect to nonlinearity) stability of stochastic discrete automatic control systems with nonlinear feedback. 90f:93064
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- Krishna, Hari (with Wang, Yunbiao) On fast algorithm for testing the stability of discrete time systems. (French and German summaries) 90g:65173
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- Lé Sy-Dông The stability of a class of random discrete systems with two parameters. (Vietnamese. English summary) 90b:60124
- Li, Zhong (with Huang, Lin) Some problems of second method of Lyapunov in discrete systems. 90i:93090
- Liao, Xiao Xin Necessary and sufficient conditions for the absolute stability of discrete Lur'e control systems. (Chinese) 90m:93093
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- Mitropol'skii, Yu. A. (with Martynuk, D. I.; Danilov, V. Ya.) Behavior of solutions of nonlinear systems of difference equations in a neighborhood of an invariant toroidal manifold. 90b:39005
- Molchanov, A. P. (with Pyatnitskii, E. S.) Criteria of asymptotic stability of differential and difference inclusions encountered in control theory. 90g:34014
- Prokhorova, R. A. Reduction of linear finite-difference equations to differential equations. 90h:39004
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- Qian, Ji Lin (with Liao, Xiao Xin) A short-cut method for solving the matrix equation $A^T X A - X = C$ and its applications. (Chinese. English summary) 90f:15014
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- Ramsey, L. Thomas Stability of (deterministic) adaptive auto-regressive filters. 90h:93088
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- Tsinias, J. Stabilizability of discrete-time nonlinear systems. 90j:93092
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- Wang, Mu Qiu (with Wang, Lian) Stability of discrete dynamical systems. (Chinese. English summary) (Not in MR)
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- Xu, Dao Yi Comparison principle of difference equations approach to stability and feedback stabilization of neutral delay-differential systems. (see 90m:00037)
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- Yang, Xue Shan (with Chen, Lung-Ke; Burton, Robert M., Jr.) Stability of discrete bilinear systems with output feedback. (Not in MR)
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- Yu, Run Yi (with Gao, Wei Bing) Multi-layer structure and stability of discrete large-scale systems. (Not in MR)

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Zhou, Chao Shun (with Deng, Ju Long; Que, Tai Lin) Sufficient criteria for the stability of grey discrete-time systems. (Chinese. English summary) 90a:93098

Zuber, I. E. (with Yakubovich, E. D.) On a modal approach to the stabilization of discrete time-dependent linear control systems. (Russian) (Not in MR)

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Basik, V. A. An implicit algorithm for solving boundary value problems for three-point difference equations. (Russian) 90m:39016

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Tuzik, A. I. Discrete equations of convolution type that reduce to four-element boundary value problems with Carleman shift. (Russian. English summary) 90a:39009

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Yagle, Andrew E. Discrete matrix Schrödinger equation equivalents of discrete two-component matrix wave systems. 90d:39006

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de Boor, Carl (with Höllig, Klaus; Riemenschneider, S. D.) Fundamental solutions for multivariate difference equations. 90b:39002

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Lachowicz, M. (with Monaco, R.) Existence and quantitative analysis of the solutions to the initial value problem for the discrete Boltzmann equation in all space. 90e:82039

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Morii, Masakazu (with Kasahara, Masao; Whiting, Douglas L.) Efficient bit-serial multiplication and the discrete-time Wiener-Hopf equation over finite fields. 90m:94038

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Otelbaev, M. Coercive estimates for the solutions of difference equations. (Russian) 90c:39005

Pao, C. V. Asymptotic behavior of solutions for finite-difference equations of reaction-diffusion. 90j:65147

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39A70 Difference operators [see also 47B39]

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- Hankerson, Darrel (with Peterson, Allan C.) A classification of the solutions of a difference equation according to their behavior at infinity. 90b:39004
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- Lupaş, Alexandru *see* Lupaş, Luciana, 90a:41020
- Lupaş, Luciana (with Lupaş, Alexandru) Polynomials of binomial type and approximation operators. (Romanian summary) 90a:41020
- Magnus, Alphonse P. Associated Askey-Wilson polynomials as Laguerre-Hahn orthogonal polynomials. 90d:33008
- Mamedov, Kh. R. Problems in scattering theory for systems of first-order difference equations on the whole axis. (Russian) 90c:47028
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- Proskurkowski, Włodzisław Remarks on spectral equivalence of certain discrete operators. 90b:65170
- Reisch, Michael Generating difference equations with the Darboux transformation. 90a:39005
- Teptin, A. L. On the sign of the Green difference function. 90d:39005
- Vesilov, A. P. Integrable systems with discrete time, and difference operators. 90a:58081

39A99 None of the above, but in this section

- Lee, E. T. Y. A remark on divided differences. 90i:39008
- Thandapani, E. A sharp upper bound for discrete inequalities of Gronwall-Bellman type. 90f:39010

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- Dorogovtsev, A. Ya. (with Le Vin' Tkhuan) The existence of periodic and stationary regimes of discrete dynamical systems in a Banach space. (Russian. English summary) 90f:60114
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39Bxx Functional equations [see also 30D05]

- Crstici, Borislav *see* Neagu, Mihai, 90d:39008
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- Gutkin, E. Integrable many-body problems and functional equations. 90f:58085

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- Selected topics in functional equations ★ Selected topics in functional equations. 90d:39001
- Seminar: Functional Equations ★ Selected topics in functional equations. 90d:39001

39B05 General

- Bykov, N. A. Solvability of functional equations in \mathbb{R}^n . (Russian) (Not in MR)
- Crajaş, Miljenko (with Miller, Harry I.; Živaljević, Boško) Applications of the zero-one law to problems connected with Cauchy's functional equation. 90b:39013
- Li, Wen Rong (with Si, Jian Guo) Continuous solutions and analytic solutions of two classes of functional equations. (Chinese) 90b:39014
- Miller, Harry I. *see* Crajaş, Miljenko; et al., 90b:39013
- Petruska, G. On a functional equation with retarded mean. 90f:39011
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- Azad, N. (with Thaaheim, A. B.) On the operator equation $\alpha + \alpha^{-1} = \beta + \beta^{-1}$. II. (Serbo-Croatian summary) 90f:47059
- Dobbs, David E. A characterization of the tangent function. 90f:26001
- (Dravecký, J.) *see* Smítal, J., 90c:39001
- Jarczyk, Witold Asymptotic behaviour of positive solutions of a recurrent equation. 90m:39006
- Parnami, J. C. (with Singh, Harshinder; Vasudeva, H. L.) On an exponential-cosine functional equation. 90c:39012
- Reich, Ludwig On families of commuting formal power series. 90b:30042
- Singh, Harshinder *see* Parnami, J. C.; et al., 90c:39012
- Smítal, J. ★ On functions and functional equations. 90c:39001
- Thaaheim, A. B. *see* Azad, N., 90f:47059
- Vasudeva, H. L. *see* Parnami, J. C.; et al., 90c:39012

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- Canazza, A. Extension theorems for integral representations of solutions of a functional equation. 90m:39018
- Crstici, Borislav *see* Neagu, Mihai, 90f:39012
- Darsow, W. F. (with Frank, M. J.; Kairies, Hans-Heinrich) Errata: "Functional equations for a function of van der Waerden type". 90b:39015b
- *see also* Kairies, Hans-Heinrich; et al., 90b:39015a
- Frank, M. J. *see* Kairies, Hans-Heinrich; et al., 90b:39015a and Darsow, W. F.; et al., 90b:39015b

- Kairies, Hans-Heinrich Ein System von Funktionalgleichungen vom verallgemeinerten Replikativitäts-Typ. [A system of functional equations of generalized replicativity type] 90b:39013
- (with Darsow, W. F.; Frank, M. J.) Functional equations for a function of van der Waerden type. (Serbo-Croatian summary) 90b:39015a
- *see also* Darsow, W. F.; et al., 90b:39015b
- Kuczma, Marek A generic property of a linear functional equation. (Polish summary) 90b:39012
- Neagu, Mihai (with Crstici, Borislav) About a functional characterization of polynomials. (Romanian summary) 90f:39012
- Smítal, J. On Darboux solutions of the Euler's equation. 90j:39007
- Wilders, B. E. Inverse limit means are not preserved under homeomorphisms. 90j:39008
- Zdun, M. C. On simultaneous Abel's equations. 90m:39019
- Zhang, Wei Nian Stability of the solution of the iterated equation $\sum_{i=1}^n \lambda_i f(x) = F(x)$. 90c:39010
- On the differentiable solutions of the iterated equation $\sum_{i=1}^n \lambda_i f^i(x) = F(x)$. (Chinese) 90f:39009

Items with secondary classifications in 39B10

- Azarina, Yu. V. Invariant analytic curves for entire functions. 90j:30038
- Cheng, Bao Long The continual differentiable peak-unimodal solutions of Feigenbaum's functional equations. 90m:58130
- Czerni, Marek Stability of normal regions for linear homogeneous functional equations. 90b:39018
- Dankiewicz, Kazimierz On approximate solutions of a functional equation in the class of differentiable functions. 90f:39015
- Gokhman, A. O. Smooth symmetric functions. 90b:26017
- Haruki, H. An improvement of the Nevanlinna-Pólya theorem. 90a:30076
- Jarczyk, Witold On continuous functions which are additive on their graphs. 90j:39009
- McGuire, J. B. *see* Thompson, C. J., 90c:58134
- Petek, Peter On the iterative solutions of quadratic equations. (Slovenian summary) 90j:58068
- Reich, Ludwig Über ein Problem von J. Schwaiger und Z. Moszner betreffend die Vertauschbarkeit von einparametrischen Automorphismengruppen formaler Potenzreihenringe. (English summary) [On a problem of J. Schwaiger and Z. Moszner concerning the exchangeability of one-parameter automorphism groups of rings of formal power series] 90f:13013
- Segal, S. L. Iterative characterizations of powers and exponentials. 90j:30042
- Sullivan, Dennis Quasiconformal homeomorphisms in dynamics, topology, and geometry. 90a:58160
- Thompson, C. J. (with McGuire, J. B.) Asymptotic and essentially singular solutions of the Feigenbaum equation. 90c:58134

39B20 Equations for one unknown function of one variable, rank greater than one

- Baron, Karol On a problem of R. Schilling. 90g:39013
- On the continuous solutions of the Golab-Schinzel equation. 90i:39010
- Borelli Forti, Costanza Redundancy conditions for the functional equation $f(k(t) + h(t)) = f(k(t)) + f(h(t))$. (Italian. English summary) 90g:39014
- Choczewski, Bogdan Note on discontinuous solutions of a functional equation. 90c:39011
- (with Kuczma, Marek) A remark on doubly stochastic measures and functional equations. 90f:39013
- Chojnacki, Wojciech On some functional equation generalizing Cauchy's and d'Alembert's functional equations. 90a:39010
- Gądek, Barbara (with Gądek, Jerzy) Inner product in the sense of Aczél. (Polish summary) 90g:39015
- Gądek, Jerzy *see* Gądek, Barbara, 90g:39015
- Gajda, Zbigniew (with Miller, Harry I.) On quadratic functionals and some properties of Hamel bases. 90m:39020
- Jarczyk, Witold On continuous functions which are additive on their graphs. 90j:39009
- Kairies, Hans-Heinrich Bemerkungen zu einem Existenz- und Eindeutigkeitsproblem von W. Walter aus dem Gebiet der Differenzengleichungen. (English summary) [Remarks on an existence and uniqueness problem of W. Walter in the area of difference equations] 90b:39016
- Kannappan, P. (with Sahoo, P. K.) On a functional equation connected to sum form nonadditive information measures on an open domain. II. (Serbo-Croatian summary) 90c:39013
- (with Sahoo, P. K.) On the general solution of a functional equation connected to sum form information measures on open domain. II. 90d:39009
- Kostyrko, Pavel On a local form of a functional equation with the harmonic mean. (Russian and Slovak summaries) 90g:39016
- Kuczma, Marek *see* Choczewski, Bogdan, 90f:39011
- Li, Wen Rong *see* Si, Jian Guo, 90c:39016
- Malenica, Mirjana Some special examples of regular transformations. (Serbo-Croatian summary) 90c:39014
- (with Perić, Veselin) A solution of the functional equation $\varphi(x) + \varphi(f(x)) = G(x)$. (Serbo-Croatian. English summary) 90c:39015
- Marenich, A. S. Construction of asymptotic expansions of solutions to functional equations and to systems of such by the method of Lie series. (Russian) (see 90i:00001)
- Miller, Harry I. *see* Gajda, Zbigniew, 90m:39020
- Müller, Winfried D. U. Die Funktionalgleichung des geometrischen Mittels. [The functional equation of the geometric mean] (Not in MR)
- Parnami, J. C. (with Singh, Harshinder; Vasudeva, H. L.) On an exponential-cosine functional equation. 90c:39012
- Perić, Veselin *see* Malenica, Mirjana, 90c:39015
- Radu, Viorel Some remarks on logarithms and exponentials. 90j:39010
- Sahoo, P. K. *see* Kannappan, P., 90c:39013 and 90d:39009
- Si, Jian Guo (with Li, Wen Rong) On the existence and approximation of continuous solutions to linear functional equations. (Chinese. English summary) 90c:39016

Singh, Harshinder *see* Parnami, J. C.; et al., 90c:39012

Trench, William F. Efficient application of the Schauder-Tychonoff theorem to functional perturbations of $x^{(n)} = 0$. 90d:39010

Vasudeva, H. L. *see* Parnami, J. C.; et al., 90c:39012

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Craja, Miljenko (with Miller, Harry I.; Živaljević, Boško) Applications of the zero-one law to problems connected with Cauchy's functional equation. 90h:39013

Dobbs, David E. A characterization of the tangent function. 90f:26001

Erdős, A. E. Some functional equations connected with the iteration of rational functions. (Russian) 90m:39030

Fenyő, I. (with Paganoni, L.) A functional equation which characterizes the Jacobian $\text{sn}(z, k)$ functions. (Italian summary) 90h:39028

— (with Paganoni, L.) A functional equation from the theory of Jacobian elliptic functions. (Italian, English summary) 90d:39075

Isaacs, Mihai The solutions of some functional equations applicable in technique. (Romanian summary) 90c:45001

Jiang, Jiang (with Zhu, Shan An) Numerical solution for a class of open-loop differential games via the shifted Chebyshev polynomial approximation. 90i:93047

Kuchko, L. P. Linear functional equations with variable coefficients. 90c:58169

Lehmer, D. H. A new approach to Bernoulli polynomials. 90c:11014

Lü, Wen Rong (with Si, Jian Guo) Continuous solutions and analytic solutions of two classes of functional equations. (Chinese) 90h:39014

Miller, Harry I. *see* Craja, Miljenko; et al., 90h:39013

Paganoni, L. *see* Fenyő, I., 90h:39028 and 90d:39075

Paganoni Marzagalli, Stefania Functional equations associated with Jacobian elliptic functions. (Italian, English summary) 90h:33006

Si, Jian Guo *see* Lü, Wen Rong, 90h:39014

Silva, Y. Nontrivial entire solutions of the functional equation $f(\lambda) + f(\omega\lambda)f(\omega^{-1}\lambda) = 1$, $\omega^3 = 1$. 90c:39039

Zhang, Wei Nian On the differentiable solutions of the iterated equation $\sum_{i=1}^n \lambda_i f^i(x) = F(x)$. (Chinese) 90i:39009

Zhu, Shan An *see* Jiang, Jiang, 90i:93047

Živaljević, Boško *see* Craja, Miljenko; et al., 90h:39013

39B30 Equations for several unknown functions of one variable, systems

Aczél, J. (with Kuczma, Marek) On two mean value properties and functional equations associated with them. 90h:39005

— The state of the second part of Hilbert's fifth problem. 90h:39017

Daróczy, Zoltán (with Kátai, Imre) On a functional equation with polynomials. 90h:39014

Gu, Hua Min *see* Lau, Ka Sing, 90j:39011

Gulati, K. K. Some functional equations connected with entropy. 90c:39017

Kátai, Imre *see* Daróczy, Zoltán, 90h:39014

Kuczma, Marek *see* Aczél, J., 90h:39005

Lau, Ka Sing (with Gu, Hua Min) A note on an integrated Cauchy functional equation. 90j:39011

Paganoni, L. (with Paganoni Marzagalli, Stefania) Holomorphic solutions of an inhomogeneous Cauchy equation. 90c:39013

Paganoni Marzagalli, Stefania *see* Paganoni, L., 90c:39013

Pelyukh, G. P. Representation of solutions of systems of nonlinear functional equations in a neighborhood of singular points. (Russian, English summary) 90f:39014

Sándor, József On certain functional equations. 90c:39018

Szekelyhidi, László ★ On the Levi-Civita functional equation. 90d:39011

Items with secondary classifications in 39B30

Berezanskii, L. M. On the spectrum of the inner superposition operator. (Russian) 90i:47030

Haruki, H. An improvement of the Nevanlinna-Pólya theorem. 90a:30076

Kairies, Hans-Heinrich Ein System von Funktionalgleichungen vom verallgemeinerten Replikativitäts-Typ. [A system of functional equations of generalized replicativity type] 90h:39013

Kostyrka, Pavel On a local form of a functional equation with the harmonic mean. (Russian and Slovak summaries) 90g:39016

Tabor, József A Pexider equation on a small category. (Polish summary) 90j:39012

Wilder, B. E. Inverse limit means are not preserved under homeomorphisms. 90j:39008

39B40 Equations for functions of several variables

Acu, D. New generalizations for functional equation of Bertolino's type. (see 90d:00043)

Aczél, J. (with Gronau, D.) On the Jabotinsky equations. (see 90f:00003)

Adamaszek, Irena Solution of the generalized translation equation on some structures. 90c:39011

Aggarwal, Uma *see* Vinocha, O. P., 90h:39017

Al-Rashed, Abdallah M. *see* Hemdan, Hamdi T., 90d:39012

Ahina, Claudi (with Benz, Walter) Proportion functions in three dimensions. 90h:39018

Baker, John A. Functional equations, tempered distributions and Fourier transforms. 90c:39006

Benvenuti, P. (with Lo Schiavo, M.) On the associativity equation on \mathbb{R}^2 . (Italian summary) 90m:39021

Benz, Walter *see* Ahina, Claudi, 90h:39018

Chung, J. K. (with Kannappan, P.; Ng, C. T.; Sahoo, P. K.) Measures of distance between probability distributions. 90h:39015

Ehanks, B. R. On the equation $F(X) + M(X)G(X^{-1}) = 0$ on K^* . 90h:39011

— Differentiable solutions of a functional equation of Székelyhidi. 90h:39007

Fenyő, I. (with Paganoni, L.) On a rule of rational addition. (Italian) 90m:39022

Filipescu, A. On a functional equation. (Romanian summary) 90g:39017

Fürst, Wolfgang On differentiable solutions of the translation equation. 90h:39019

Gronau, D. *see* Aczél, J., (90f:00003)

Hemdan, Hamdi T. (with Al-Rashed, Abdallah M.) On certain generalized functional equations. 90d:39012

Kannappan, P. On a generalization of sum form functional equation. VII. 90d:39014

— (with Sahoo, P. K.) Weighted entropy of degree β on open domain. 90h:39016

— On a generalization of the sum form functional equation. VI. 90d:39013

— (with Sander, Wolfgang) On entropies with the sum property on open domain. 90h:39020

— *see also* Chung, J. K.; et al., 90h:39015

Kostyrka, Pavel Generalized Jensen's and Lobachevski's functional equations and their local forms. (Serbo-Croatian summary) 90g:39018

Lew, John S. A functional equation of Ih-Ching Hsu. 90h:39012

Lo Schiavo, M. *see* Benvenuti, P., 90m:39021

Mosznar, Zenon Une généralisation d'un résultat de J. Aczél et M. Hosszú sur l'équation de translation. [Generalization of a result of J. Aczél and M. Hosszú concerning the translation equation] 90c:39014

Ng, C. T. *see* Chung, J. K.; et al., 90h:39015

Paganoni, L. *see* Fenyő, I., 90m:39022

Páles, Z. Remarks on generalized homogeneous deviation means. 90c:39019

— (with Volkman, Peter) Characterization of a class of means. 90h:39008

Sablík, Maciej Conditional iteration semigroups. 90h:39021

Sahoo, P. K. *see* Chung, J. K.; et al., 90h:39015 and Kannappan, P., 90h:39016

Sander, Wolfgang *see* Kannappan, P., 90h:39020

Vinocha, O. P. (with Aggarwal, Uma) Generalization of functional equations. 90h:39017

Volkman, Peter *see* Páles, Z., 90h:39008

Items with secondary classifications in 39B40

Aczél, J. (with Dhombres, Jean) ★ Functional equations in several variables. 90h:39001

Altshuler, S. A class of integro-differential equations of Volterra type. (Russian, English summary) 90c:45004

Comerford, Leo P., Jr. (with Edmunds, Charles C.) The solvability of quadratic equations in free products of free groups with cyclic amalgamation. 90h:20032

Dhombres, Jean *see* Aczél, J., 90h:39001

Ehanks, B. R. (with Kannappan, P.; Ng, C. T.) Recursive inset entropies of multiplicative type on open domains. 90h:39013

Edmunds, Charles C. *see* Comerford, Leo P., Jr., 90h:20032

Forti, B. (with Hughes, W. P.) A representation theorem for entropies with the branching property. 90h:94029

Gronau, D. Some properties of the solutions of the translation equation in Banach spaces. 90h:39024

Hughes, W. P. *see* Forti, B., 90h:94029

Kannappan, P. *see* Ehanks, B. R.; et al., 90h:39013

Ng, C. T. *see* Ehanks, B. R.; et al., 90h:39013

Sander, Wolfgang Information measures on the open domain. 90c:94012

39B50 Functional equations on algebraic structures

Aczél, J. (with Gronau, D.) Iteration, translation, commuting, and differential equations. 90h:39022

Craig, R. (with Páles, Z.) The associativity equation revisited. 90g:39019

Gajda, Zsuzsanna On stability of the Cauchy equation on semigroups. 90h:39012

Ger, R. Some remarks on quadratic functionals. (Serbo-Croatian summary) 90h:39009

Gronau, D. *see* Aczél, J., 90h:39022

Kurepa, S. On P. Volkman's paper. (Serbo-Croatian summary) 90d:39015

Páles, Z. *see* Craig, R., 90g:39019

Szekelyhidi, László On a linear functional equation. 90m:39023

— The stability of the sine and cosine functional equations. 90m:39024

Tabor, József A Pexider equation on a small category. (Polish summary) 90j:39012

Items with secondary classifications in 39B50

Borelli Forti, Costanza (with Forti, Gian Luigi) On entire functions additive on graphs. 90h:30063

Chojnacki, Wojciech On some functional equation generalizing Cauchy's and d'Alembert's functional equations. 90a:39010

Ehanks, B. R. On the equation $F(X) + M(X)G(X^{-1}) = 0$ on K^* . 90h:39011

Forti, Gian Luigi *see* Borelli Forti, Costanza, 90h:30063

Gajda, Zsuzsanna (with Ger, R.) Subadditive multifunctions and Hyers-Ulam stability. 90h:39009

— On functional equations related to linear differential equations. 90h:39013

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Páles, Z. A Hahn-Banach theorem for separation of semigroups and its applications. 90m:46010

Szekelyhidi, László ★ On the Levi-Civita functional equation. 90d:39011

Targowski, György (with Zdm, M. C.) ★ Substitution operators on L^p -spaces and their semigroups. 90c:47024

Zdm, M. C. *see* Targowski, György, 90c:47024

39B60 Matrix functional equations

Items with secondary classifications in 39B60

Georgiou, D. A. Summable equivalence of difference equations. 90c:39004

Moak, Daniel S. Combinatorial multinomial matrices and multinomial Stirling numbers. 90g:05013

39B70 Functional equations on abstract spaces or structures

Dankiewicz, Kazimierz On approximate solutions of a functional equation in the class of differentiable functions. 90f:39015

- Ehanks, B. R. (with Kannappan, P.; Ng, C. T.) Recursive inset entropies of multiplicative type on open domains. 90a:39013
 Fochi, Margherita Functional equations on A -orthogonal vectors. 90f:39016
 Gajda, Zsolt On functional equations related to linear differential equations. 90i:39013
 Ger, R. Christensen measurability and functional equations. 90h:39023
 Gronau, D. Some properties of the solutions of the translation equation in Banach spaces. 90h:39024

Grosse-Erdmann, Karl-Goswin Regularity properties of functional equations and inequalities. 90f:39017

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Ng, C. T. *see* Ehanks, B. R.; et al., 90a:39013

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Aczél, J. (with Gronau, D.) Some differential equations related to iteration theory. 90h:35230

Baron, Karol On the continuous solutions of the Golab-Schinzel equation. 90i:39010

Forte, B. (with Hughes, W. P.) A representation theorem for entropies with the branching property. 90h:94029

Gajda, Zsolt On stability of the Cauchy equation on semigroups. 90a:39012

Ger, R. (with Kominek, Z.) Boundedness and continuity of additive and convex functions. 90i:46016

Gronau, D. *see* Aczél, J., 90h:35230

Hmili, Mohamed Cones of potentiels stables par produit et systèmes semi-dynamiques. (English summary) [Potential cones stable by product and semidynamical systems] 90k:31010

Hughes, W. P. *see* Forte, B., 90h:94029

Kominek, Z. *see* Ger, R., 90i:46016

N'Guérékata, Gaston Mandata Some remarks on asymptotically almost automorphic functions. 90a:47101

Parnami, J. C. (with Singh, Harshinder; Vasudeva, H. L.) On an exponential-cosine functional equation. 90e:39012

Perri, U. Global extendibility of the solutions of parameter-dependent nonlinear equations. (Italian. English summary) 90a:35084

Singh, Harshinder *see* Parnami, J. C.; et al., 90e:39012

Vasudeva, H. L. *see* Parnami, J. C.; et al., 90e:39012

Vukman, J. Some remarks on derivations in Banach algebras and related results. 90a:46120

39B99 None of the above, but in this section

Dhombres, Jean Some recent applications of functional equations. 90e:39015

Kalra, Savita (with Parnami, J. C.; Vasudeva, H. L.) A sine equation in Banach algebras. 90e:39016

Parnami, J. C. *see* Kalra, Savita; et al., 90e:39016

Vasudeva, H. L. *see* Kalra, Savita; et al., 90e:39016

Items with secondary classifications in 39B99

Aminov, R. Kh. (with Gabdulhaev, B. G.) Approximate solution of the Ambartsumyan functional equation. 90h:45021

Bézivin, J.-P. Solutions rationnelles de certaines équations fonctionnelles. [Rational solutions of some functional equations] 90c:11015

Chambers, L. G. Note on the functional-differential equation $\sum_{m=-\infty}^{\infty} a_m y'(x + ma) = f(x)$. 90g:34082

Gabdulhaev, B. G. *see* Aminov, R. Kh., 90h:45021

Giroto, Bruno (with Holzer, Silvano) Some de Finetti-Kolmogoroff-Nagumo type integral representation theorems for means on masses. (Italian summary) 90j:26028

Holzer, Silvano *see* Giroto, Bruno, 90j:26028

Miller, Harry I. On a property of Hamel bases. (Italian summary) 90e:04002

Páles, Z. On homogeneous quasideviation means. 90e:26050

Popovitch, Elena Sur certains problèmes de recherche dans la théorie de l'allure. [Some research problems in the theory of allure] 90e:26037

Toader, Gh. Discrete convexity cones. 90c:40005

39C05 Functional inequalities [see also 26Dxx]

Czerni, Marek Stability of normal regions for linear homogeneous functional equations. 90h:39018

Daróczy, Zoltán (with Páles, Z.) Convexity with given infinite weight sequences. 90c:39020

Fenyő, I. On an inequality of P. W. Cholewa. 90h:39025

Kannappan, P. (with Sahoo, P. K.) On a generalization of the Shannon functional inequality. 90i:39014

Matkowski, Janusz The converse of the Minkowski's inequality theorem and its generalization. 90c:39025

Páles, Z. *see* Daróczy, Zoltán, 90c:39020

Pelling, M. J. Subadditive functions on modules and subgroups of abelian groups. 90f:39018

Sahoo, P. K. *see* Kannappan, P., 90i:39014

Thandapani, E. Gronwall, Bihari and Langenhop type inequalities for discrete Pfaffian equation. 90g:39020

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Ger, R. Christensen measurability and functional equations. 90h:39023

Grosse-Erdmann, Karl-Goswin Regularity properties of functional equations and inequalities. 90f:39017

Kominek, Z. (with Kuczma, Marek) On the lower hull of convex functions. 90i:26012

Kong, Qing Kai (with Zhang, Bing Gen) Some generalization of Gronwall-Bihari integral inequalities and their applications. 90k:26028

Krasikov, I. How many numbers satisfy the $3X + 1$ conjecture? 90k:11013

Kuczma, Marek *see* Kominek, Z., 90i:26012

Kurepa, S. On P. Volkmann's paper. (Serbo-Croatian summary) 90d:39015

McNabb, Alex (with Weir, Graham) Comparison theorems for causal functional-differential equations. 90e:34126

Pachpatte, B. G. On some new discrete inequalities in two independent variables. 90k:26040

Radu, Viorel Some remarks on logarithms and exponentials. 90j:39010

Weir, Graham *see* McNabb, Alex, 90e:34126

Zhang, Bing Gen *see* Kong, Qing Kai, 90k:26028

Zhang, Wei Nian On the differentiable solutions of the iterated equation $\sum_{i=1}^n \lambda_i f^i(x) = F(x)$. (Chinese) 90k:39009

40-XX Sequences, series, summability

40-00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 40-00

Ando, Tsuyoshi *see* Halperin, I., 90k:00036

(Gamskrelidze, R. V.) *see* Analysis, 90j:00027

Halperin, I. (with Ando, Tsuyoshi) ★ Bibliography: series of vectors and Riemann sums. 90k:00036

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Analysis ★ Analysis. I. 90j:00027

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40-01 Elementary exposition; textbooks

Lahiri, B. K. Rearrangements of series. (Not in MR)

Rubel, Lee A. The editor's corner: summability theory: a neglected tool of analysis. (Not in MR)

Zhao, Gen Rong (with Zheng, Xing Hua) Summation of divergent series. III. (Chinese) (Not in MR)

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Items with secondary classifications in 40-01

Maddox, I. J. ★ Elements of functional analysis. 90k:46002

40-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 40-03

Babbage, Charles ★ The works of Charles Babbage. Vol. 1. 90g:01062

(Berg, Maxine) *see* Babbage, Charles, 90g:01062

(Bromley, Allan G.) *see* Babbage, Charles, 90g:01062

(Campbell-Kelly, Martin) *see* Babbage, Charles, 90g:01062

(Cohen, I. Bernard) *see* Babbage, Charles, 90g:01062

(Dubbey, John M.) *see* Babbage, Charles, 90g:01062

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Babbage, Charles *see* Babbage, Charles, 90g:01062

Biography:

Babbage, Charles *see* Babbage, Charles, 90g:01062

40-06 Proceedings, conferences, etc.

Items with secondary classifications in 40-06

(Motornyi, V. P.) *see* Investigations in current problems in summation and the approximation of functions and their applications, 90h:41001

Items listed otherwise than by author

Investigations in current problems in summation and the approximation of functions and their applications ★ Исследования по современным проблемам суммирования и приближения функций и их приложений. (Russian) [Investigations in current problems in summation and the approximation of functions and their applications] 90h:41001

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

Akhbarov, S. S. Power series with coefficients in nonnormable spaces. (Russian. English and Armenian summaries) 90j:40001

Almgren, Frederick J., Jr. (with Lieb, Elliott H.) Symmetric decreasing rearrangement can be discontinuous. 90e:40001

Antosik, Piotr On interchange of limits. 90c:40001

Bhattacharyya, S. K. *see* Lahiri, B. K., 90d:40002

Bushanskii, A. V. Some properties of special series of Leibniz type. (Russian) 90b:40001

Constantinescu, Radu On a property related to the comparison criterion for series. 90e:40002

- Doldas, Z. O. Iterative processes that are realized using the alternation of Fejér mappings. (Russian) **90d:40001**
- Garibay, F. (with Greenberg, Peter; Reséndis, Lino; Rivaud, Juan José) The geometry of sum-preserving permutations. **90d:40001**
- Greenberg, Peter *see* Garibay, F.; et al., **90d:40001**
- Jiang, Tian Quan A theorem on the limit of a sequence. (Chinese) (Not in MR)
- Kovačević, Milan A. *see* Milovanović, Igor Z.; et al., **90c:40003**
- Lahiri, B. K. (with Bhattacharyya, S. K.) Some properties of infinite series. **90d:40002**
- (Lewin, Jonathan) *see* Pinkham, Roger, (Not in MR)
- (Lewin, Myrtle) *see* Pinkham, Roger, (Not in MR)
- Lieb, Elliott H. *see* Almgren, Frederick J., Jr., **90c:40001**
- Martins, Jorge Antonio Sampaio Arithmetic and geometric means, an application to Lorentz sequence spaces. **90b:40002**
- Miller, Harry L. (with Östrik, Ekrem) Two results on the rearrangement of series. (Serbo-Croatian summary) **90i:40001**
- Milovanović, Igor Z. (with Kovačević, Milan A.; Tsvetich, S. D.) Some transformations of series. **90c:40003**
- Östrik, Ekrem *see* Miller, Harry L., **90i:40001**
- Pinkham, Roger Letter to the editor: "A simple test for the n th term of a series to approach zero" [Amer. Math. Monthly **95** (1988), no. 10, 942] by J. Lewin and M. Lewin. (Not in MR)
- Reséndis, Lino *see* Garibay, F.; et al., **90d:40001**
- Rivaud, Juan José *see* Garibay, F.; et al., **90d:40001**
- Todd, John The many limits of mixed means. II. The Carlson sequences. **90b:40003**
- Tsvetich, S. D. *see* Milovanović, Igor Z.; et al., **90c:40003**
- Items with secondary classifications in 40A05
- Bernstein, B. (with Rogers, D. G.) A sum suggested by rational approximations to π . **90d:11141**
- Brezinski, Claude Quasi-linear extrapolation processes. **90b:65012**
- Di Lena, G. (with Messano, B.; Zitarosa, A.) On the iterative process $x_{n+1} = f(x_n, x_{n-1})$. **90c:26012**
- Giorgio, G. D. Structure of the set of sums of a conditionally converging series in a p -normed space. (Russian. English and Georgian summaries) **90f:46009**
- Grigoryan, N. V. Convergence of sequences in M. M. Dzhrbashyan's spaces. (Russian) **90b:30092**
- Horváth, Miklós Answer to a problem of I. Joó. **90b:26007**
- Hou, Ren En Uniform convergence of series of fuzzy-valued functions. (Chinese. English summary) **90c:26072**
- Kadets, V. M. A domain of sums of weakly convergent series. **90j:40004**
- Li, Yan Nian Absolute convergence of Fourier series of complex functions on \mathbb{R}^n . (Chinese. English summary) **90c:42028**
- Livinskii, V. A. Limit behavior of a sequence. (Russian) **90a:60070**
- Messano, B. *see* Di Lena, G.; et al., **90c:26012**
- Rogers, D. G. *see* Bernstein, B., **90d:11141**
- Swartz, Charles A generalization of Stiles' Orlicz-Pettis theorem. (Italian summary) **90j:46008**
- Zitarosa, A. *see* Di Lena, G.; et al., **90c:26012**

40A10 Convergence and divergence of integrals

- Bennett, Larry *see* Necache, Alejandro, **90a:40001**
- Necache, Alejandro (with Bennett, Larry) On a certain sequence of quotients of a sequence. **90a:40001**

40A15 Convergence and divergence of continued fractions [see also 30B70]

- Bodnar, D. I. Analogues of conditions of Pringsheim convergence for branching continued fractions. (Russian. English summary) **90f:40002**
- Chihara, T. S. The parameters of a chain sequence. **90c:40004**
- Hendriksen, E. (with Njåstad, Olav) Positive multipoint Padé continued fractions. **90i:40002**
- Horváth, R. M. The classical irrationality problem for T -fractions. **90m:40001**
- (Jacobsen, Lisa) *see* Analytic theory of continued fractions, **90b:40001**
- Kachinskaya, Kh. I. Some conditions for the convergence of two-dimensional continued fractions. (Russian) (see **90d:40046**)
- Levie, Paul Pringsheim's theorem revisited. **90b:40004**
- Njåstad, Olav *see* Hendriksen, E., **90i:40002**
- Stahl, Herbert n th-root asymptotics of orthonormal polynomials and nondiagonal Padé approximants. **90d:40003**
- Items listed otherwise than by author
- Analytic theory of continued fractions ★ Analytic theory of continued fractions. III. **90b:40001**
- Lecture Notes in Mathematics ★ Analytic theory of continued fractions. III. **90b:40001**
- Redstone, CO ★ Analytic theory of continued fractions. III. **90b:40001**
- Seminar:
- Analytic Theory of Continued Fractions ★ Analytic theory of continued fractions. III. **90b:40001**

Items with secondary classifications in 40A15

- Achuthan, P. (with Ponnuswamy, S.) A theorem of Ramanujan and conversion of continued fractions into power series. **90a:11014**
- Adiga, Chandrashekar *see* Bhargava, Srinivasamurthy; et al., **90a:33005**
- Bhargava, Srinivasamurthy (with Adiga, Chandrashekar; Somashekhara, D. D.) On some generalizations of Ramanujan's continued fraction identities. **90a:33005**
- Blinov, I. N. Flickering systems. **90a:34017**
- Brezinski, Claude On the asymptotic behaviour of continued fractions. **90a:30010**

- Čanak, Miloš S. Die Anwendung der verzweigten komplexen Kettenbrüche in der Theorie der nichtanalytischen Funktionen. [The application of branching complex continued fractions in the theory of nonanalytic functions] **90g:30002**
- Canasas, L. (with González-Vera, P.) Orthogonal polynomials and geometric convergence of Padé-type approximants. **90f:41013**
- Cuyt, Annie (with Verdonk, Brigitte) Evaluation of branched continued fractions using block-tridiagonal linear systems. **90a:65039**
- Draux, André Convergence of Padé approximants in a noncommutative algebra. **90f:41014**
- Flajolet, Philippe (with Françon, J.) Elliptic functions, continued fractions and doubled permutations. **90i:05010**
- Françon, J. *see* Flajolet, Philippe, **90i:05010**
- González-Vera, P. *see* Canasas, L., **90f:41013**
- Good, I. J. Corrigenda: "The fractional dimensional theory of continued fractions" [Proc. Cambridge Philos. Soc. **37** (1941), 199–228; MR **3**, 75]. **90i:28013**
- Hautot, A. Convergence acceleration of continued fractions of Poincaré type. **90b:65005**
- Irwin, M. C. Geometry of continued fractions. **90j:11063**
- Jacobsen, Lisa (with Waadeland, H.) A result on nearness of functions and their regular C -fraction expansions. **90d:30010**
- Jones, William B. Schur's algorithm extended and Schur continued fractions. **90b:30011**
- (with Reid, Walter M.) Best a posteriori truncation error estimates for continued fractions $K(a_n/1)$ with twin element regions. **90m:65057**
- (with Thron, W. J.) Continued fractions in numerical analysis. **90c:65021**
- Lembarki, A. On a Khovanskii transformation for continued fractions. **90d:65016**
- Masson, David R. Some continued fractions of Ramanujan and Meixner-Pollaczek polynomials. **90i:30007**
- Parusnikov, V. I. The Jacobi-Perron algorithm and simultaneous rational approximations. (Russian) (see **90d:40046**)
- Pearce, C. E. M. Extended continued fractions, recurrence relations and two-dimensional Markov processes. **90g:60068**
- Ponnuswamy, S. *see* Achuthan, P., **90a:11014**
- Reid, Walter M. *see* Jones, William B., **90m:65057**
- Somashekhara, D. D. *see* Bhargava, Srinivasamurthy; et al., **90a:33005**
- Thron, W. J. *see* Jones, William B., **90c:65021**
- Verdonk, Brigitte *see* Cuyt, Annie, **90a:65039**
- Waadeland, H. Some recent results in the analytic theory of continued fractions. **90b:30012**
- *see also* Jacobsen, Lisa, **90d:30010**

40A20 Convergence and divergence of infinite products

- Gingold, H. (with Gould, H. W.; Mays, Michael E.) Power product expansions. **90i:40003**
- Gould, H. W. *see* Gingold, H.; et al., **90i:40003**
- Knopfmacher, Arnold (with Knopfmacher, John) Infinite products for power series. **90m:40002**
- Knopfmacher, John *see* Knopfmacher, Arnold, **90m:40002**
- Mays, Michael E. *see* Gingold, H.; et al., **90i:40003**
- Sergienko, L. I. *see* Slepeshchuk, K. M., **90j:40002**
- Slepeshchuk, K. M. (with Sergienko, L. I.) Analogues of two theorems of Hahn for infinite products. (Russian) **90j:40002**

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

- Basall, W. A. On certain infinite series and definite integrals involving $\delta_n = (1 \cdot 3 \cdot 5 \cdots (2n-1))/(2 \cdot 4 \cdot 6 \cdots (2n))$. (Spanish summary) **90b:40005**
- Baur, Gerhard (with Sawyer, Bruce) Best L^2 -approximation of convergent moment series. **90i:40004**
- Lamagna, Edmund A. *see* Savio, Dominic Y.; et al., **90i:40005**
- Lin, Shing-Min *see* Savio, Dominic Y.; et al., **90i:40005**
- Narov, I. An Euler-Maclaurin transformation of a slowly convergent series with an application to Fourier coefficient evaluation. **90a:40002**
- Savio, Dominic Y. (with Lamagna, Edmund A.; Liu, Shing-Min) Summation of harmonic numbers. **90i:40005**
- Sawyer, Bruce *see* Baur, Gerhard, **90i:40004**
- Xia, Zhong Ming An elementary method for finding certain series. (Chinese) **90g:40001**
- Zalazar, Hiroshi Partial sums of the harmonic series. **90b:40006**
- Zhou, Yun Shi Higher-dimensional Euler-Maclaurin summation formulas. (Chinese. English summary) **90b:40007**

Items with secondary classifications in 40A25

- Ashcroft, N. W. *see* Smith, A. P., **90b:82055**
- Brezinski, Claude A new approach to convergence acceleration methods. **90m:65010**
- Smith, A. P. (with Ashcroft, N. W.) Rapid convergence of lattice sums and structural integrals in ordered and disordered systems. **90b:82055**

40A30 Convergence and divergence of series and sequences of functions

- Liu, Zhong Xing *see* Xie, Li Zhi, **90c:40005**
- Ma, Zhong Bao Quasi-uniform convergence of series. (Chinese) **90d:40004**
- Thrupa, H. Lebesgue functions and convergence of functional series with speed almost everywhere. (Russian and Estonian summaries) **90i:40006**
- Wei, Yu Chen Regularity of "F" method of summability of sequences. **90i:40001**
- Xie, Li Zhi (with Liu, Zhong Xing) Unconditional convergence in $L^p[a, b]$. (Chinese) **90c:40005**

Items with secondary classifications in 40A30

- Ivanov, V. I. Representation of functions by series in metric symmetric spaces without linear functionals. (Russian) **90i:41045**

- Kovačević, Milan A. *see* Milovanović, Igor Ž.; et al., 90c:40003
 Levrie, Paul Improving a method for computing nondominant solutions of certain second-order recurrence relations of Poincaré-type. 90m:65013
 MacDonnell, J. Some critical points on the hyperpower functions $x = x^{x^{x^{\dots}}}$. 90d:26003
 Milovanović, Igor Ž. (with Kovačević, Milan A.; Tsvetich, S. D.) Some transformations of series. 90c:40003
 Tsvetich, S. D. *see* Milovanović, Igor Ž.; et al., 90c:40003

40A99 None of the above, but in this section

- Lenard, Andrew A nonzero complex sequence with vanishing power-sums. 90i:40007
 Nanda, Sudarsan On sequences of fuzzy numbers. 90k:40002
 Items with secondary classifications in 40A99
 Guerrero Casas, Flor María Vectorial composite transformation of sequences. (Spanish. English summary) 90c:65007
 Guthrie, J. A. (with Nymann, J. E.) The topological structure of the set of subsums of an infinite series. 90b:40010
 Nymann, J. E. *see* Guthrie, J. A., 90b:40010

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

- Lepson, I. On conditions for Cesàro sectional summability and for Cesàro sectional boundedness for spaces of double sequences and Fourier series. (Russian. English summary) 90k:40003

40Cxx General summability methods

40C05 Matrix methods

- Ali Sarigöl, M. On absolutely equivalent of summability methods. 90c:40006
 Başar, Feyzi (with Öztürk, Ekrem) On generalized dual summability methods. 90g:40002
 — (with Çolak, Rifat) Almost-conservative matrix transformations. (Turkish summary) 90m:40003
 Chandrasekhara Rao, K. Spaces of matrix operators. 90c:40002
 Çolak, Rifat *see* Başar, Feyzi, 90m:40003
 Connor, Jeff On strong matrix summability with respect to a modulus and statistical convergence. 90i:40008
 Darydov, N. A. (with Vlasenko, V. F.) A class of boundedly inefficient and completely inefficient normal conservative positive matrices. 90i:40009
 Jürimäe, E. The Zeller theorem for I -summability. (Russian. English summary) 90g:40003
 Khare, Satya Prakash (with Tripathi, Virendra Kumar) Matrix summability of Jacobi series. 90j:40003
 Nanda, Sudarsan Matrix transformations in some sequence spaces. 90k:40004
 Obi, E. C. A new property of the Weierstrass primary factors. 90d:40003
 Okuyama, Yasuo On the absolute Riesz summability of orthogonal series. 90g:40004
 Orhan, C. (with Sarigöl, M. Ali) On F -absolutely translatable summability methods. 90i:40010
 Öztürk, Ekrem *see* Başar, Feyzi, 90g:40002
 Păltineanu, Radu Méthodes de sommation d'Euler-Knopp généralisées. (Romanian summary) [Generalized Euler-Knopp summation methods] 90d:40004
 Sarigöl, M. Ali *see* Orhan, C., 90i:40010
 Sirajudeen, S. M. Matrix transformations between some sequence spaces. 90k:40002
 Tripathi, Virendra Kumar *see* Khare, Satya Prakash, 90j:40003
 Vlasenko, V. F. *see* Darydov, N. A., 90i:40009

Items with secondary classifications in 40C05

- Golkhman, V. É. Fields of summability and fields of boundedness of coregular matrices. I. (Russian) 90d:40005
 — Fields of summability and fields of boundedness of coregular matrices. (Russian) 90j:40007
 Maddox, I. J. Eigenvalues of absolute Cesàro matrices. 90f:40007
 Parameswaran, M. R. On some theorems for the logarithmic methods of summability. (Serbo-Croatian summary) 90i:40013
 Rath, D. A note on a class of matrix transformations. 90j:40008
 Spreng, Karl-Eugen On the monotonicity of saturation orders of saturated matrix methods. 90c:41050

40C10 Integral methods

- Kadets, V. M. A domain of sums of weakly convergent series. 90j:40004

40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

- Loone, L. Semicontinuous sequential summation methods and their cores. (Russian. English summary) 90j:40005

40C99 None of the above, but in this section

- Items with secondary classifications in 40C99
 Markiewicz, Teresa (with Rempulski, Lucyna) On the summability methods connected with the Dirichlet problem for an elliptic domain. 90m:40009
 Rempulski, Lucyna *see* Markiewicz, Teresa, 90m:40009

40Dxx Direct theorems on summability

40D05 General theorems

- Al-Madi, Azmi K. On translitivity of weighted mean summability methods. 90m:40004
 — Translitivity of generalized Nörlund transformation. 90m:40005
 Lah, Yvonne Some matrix transformations between the sequence spaces $l(p)$, $l_\infty(p)$, $c_0(p)$, $c(p)$ and $w(p)$. 90g:40005
 Slepeshchuk, K. M. An analogue of a theorem of Hahn for infinite products. 90c:40003
 Items with secondary classifications in 40D05
 Darydov, N. A. (with Vlasenko, V. F.) A class of boundedly inefficient and completely inefficient normal conservative positive matrices. 90i:40009
 Loone, L. Semicontinuous sequential summation methods and their cores. (Russian. English summary) 90j:40005
 Ratti, J. S. Dirichlet product of summable series. 90m:40007
 Vlasenko, V. F. *see* Darydov, N. A., 90i:40009

40D09 Structure of summability fields

- Leiger, Toivo (with Plakso, K.) Conull and coregular operator summation matrices. (Russian. German summary) 90k:40005
 Mesia, I. P. The structure of fields of effectiveness of the Euler-Knopp methods and of the generalized Nörlund methods. (Russian) 90j:40006
 Plakso, K. *see* Leiger, Toivo, 90k:40005
 Sikk, J. Matrix mappings for rate-space and \mathcal{F} -multipliers in the theory of summability. (Russian summary) 90k:40006

40D10 Tauberian constants and oscillation limits

- Items with secondary classifications in 40D10
 Borwein, David A Tauberian theorem concerning Dirichlet series. 90d:40005

40D15 Convergence factors and summability factors

- Bor, H. Corrigendum: "On the absolute summability factors of infinite series" [Comm. Fac. Sci. Univ. Ankara Sér. A, Math. 33 (1984), no. 24, 193–197; MR 88m:40009]. 90b:40008
 Items with secondary classifications in 40D15
 Jakimovski, Amnon (with Russell, Dennis; Stieglitz, Michael) On multipliers in sequence spaces and a theorem of Bosanquet. 90k:40012
 Mohanty, P. C. *see* Sakla, I., 90j:40014
 Russell, Dennis *see* Jakimovski, Amnon; et al., 90k:40012
 Sikk, J. Matrix mappings for rate-space and \mathcal{F} -multipliers in the theory of summability. (Russian summary) 90k:40006
 Stieglitz, Michael *see* Jakimovski, Amnon; et al., 90k:40012
 Sakla, I. (with Mohanty, P. C.) Absolute Riesz summability factors. 90j:40014

40D20 Summability and bounded fields of methods

- Chun, Chung Suh (with Freedman, Allen R.) A bounded consistency theorem for strong summabilities. 90i:40011
 Freedman, Allen R. *see* Chun, Chung Suh, 90i:40011
 Items with secondary classifications in 40D20
 Golkhman, V. É. Fields of summability and fields of boundedness of coregular matrices. I. (Russian) 90d:40005
 — Fields of summability and fields of boundedness of coregular matrices. (Russian) 90j:40007
 Orhan, C. (with Sarigöl, M. Ali) On F -absolutely translatable summability methods. 90i:40010
 Sarigöl, M. Ali *see* Orhan, C., 90i:40010

40D25 Inclusion and equivalence theorems

- Al-Madi, Azmi K. Comparison theorems of two absolute weighted mean summability methods. 90g:40006
 Boos, Johann (with Neuser, R.) Quotient representations and the convexity of Cesàro means. 90c:40004
 Bor, H. A relation between two summability methods. 90i:40012
 Golkhman, V. É. Fields of summability and fields of boundedness of coregular matrices. I. (Russian) 90d:40005
 — Fields of summability and fields of boundedness of coregular matrices. (Russian) 90j:40007
 Neuser, R. *see* Boos, Johann, 90c:40004
 Parameswaran, M. R. On some theorems for the logarithmic methods of summability. (Serbo-Croatian summary) 90i:40013
 Rath, D. A note on a class of matrix transformations. 90j:40008
 Rempulski, Lucyna On the summability of numerical and orthogonal series by the (B, n) -method. 90b:40009

Items with secondary classifications in 40D25

- Al-Madi, Azmi K. On absolute Rogosinski-Bernstein summability methods of different orders. 90j:40011
 Bingham, N. H. Tauberian theorems for Jakimovski and Karamata-Stirling methods. 90f:40006
 Borwein, David (with Cass, F. P.; Sayre, J. E.) On strong generalized Hausdorff summability. 90d:40008
 Cass, F. P. *see* Borwein, David; et al., 90d:40008

- Das, Gokulananda (with Guru, N.) Functional Nörlund methods. 90d:40014
 Guru, N. *see* Das, Gokulananda, 90d:40014
 Jirík, E. The Zeller theorem for k -summability. (Russian. English summary) 90g:40003
 Mishra, Babhan Prasad (with Pathak, Sachchida Nand) Strong summability of functions based on $A(C, k)$ summability methods. 90j:40013
 Noll, Dominikus (with Stadler, Wolfgang) Sliding hump technique and spaces with the Wilansky property. 90k:46022
 Ohi, E. C. A new property of the Weierstrass primary factors. 90d:40003
 Pathak, Sachchida Nand *see* Mishra, Babhan Prasad, 90j:40013
 Sayre, J. E. *see* Borwein, David; et al., 90d:40008
 Sikik, J. Matrix mappings for rate-space and \mathcal{F} -multipliers in the theory of summability. (Russian summary) 90k:40006
 Somasundaram, D. Inclusion theorems on matrix transformations of some sequence spaces over non-Archimedean fields. IV. 90d:46104
 Stadler, Wolfgang *see* Noll, Dominikus, 90k:46022
 Tait, A. A new family of generalized methods for Nörlund summability. (Russian. English summary) 90j:40015

40D99 None of the above, but in this section

- Guthrie, J. A. (with Nymann, J. E.) The topological structure of the set of subsums of an infinite series. 90d:40010
 Nymann, J. E. *see* Guthrie, J. A., 90d:40010
 Tsander, G. Discrete convexity cones. 90c:40005
 Items with secondary classifications in 40D99
 Başar, Feyzi (with Öztürk, Ekrem) On generalized dual summability methods. 90g:40002
 Öztürk, Ekrem *see* Başar, Feyzi, 90g:40002

40Exx Inversion theorems

40E05 Tauberian theorems, general

- Armitage, David H. (with Maddox, I. J.) A new type of Cesàro mean. 90i:40014
 Bernal González, Luis On a theorem of Hardy and Littlewood. 90b:40011
 Bingham, N. H. Tauberian theorems for Jakimovski and Karamata-Stirling methods. 90c:40006
 — Tauberian theorems in probability theory. 90m:40006
 Borwein, David (with Kratz, Werner) On relations between weighted mean and power series methods of summability. 90j:40009
 — A Tauberian theorem concerning Dirichlet series. 90d:40005
 Drushchinskii, Yu. N. (with Zav'yalov, B. I.) Multidimensional Abelian and Tauberian comparison theorems. (Russian) 90k:40007
 Kratz, Werner (with Stadtmüller, Ulrich) Tauberian theorems for general J_p -methods and a characterization of dominated variation. 90d:40006
 — (with Stadtmüller, Ulrich) Tauberian theorems for J_p -summability. 90d:40007
 — *see also* Borwein, David, 90j:40009
 Kwee, B. The relation between the Borel and Riesz methods of summation. 90g:40007
 Maddox, I. J. A Tauberian theorem for ordered spaces. 90i:40015
 — A Tauberian theorem for statistical convergence. 90g:40008
 — *see also* Armitage, David H., 90i:40014
 Noll, Dominikus (with Stadler, Wolfgang) Weakening Tauberian conditions for summability methods. 90j:40010
 Parameswaran, M. R. On the Endi-type generalization of certain summability methods. 90i:40016
 Reimers, E. Equivalence of double sequences and Tauberian theorems. I. (Russian. English summary) 90i:40017
 Russell, Dennis Tauberian-type results for convolution of sequences. 90k:40003
 Stadler, Albert Ein Tauber-Satz mit Restglied für die Laplace-Transformation. [A Tauberian theorem with remainder term for the Laplace transformation] 90e:40007
 Stadler, Wolfgang *see* Noll, Dominikus, 90j:40010
 Stadtmüller, Ulrich *see* Kratz, Werner, 90d:40006 and 90d:40007
 Tammerwald, I. G. Kangro's theorem for gap series. (Russian. English summary) 90i:40018
 Zav'yalov, B. I. *see* Drushchinskii, Yu. N., 90k:40007
 Items with secondary classifications in 40E05
 Bashmakova, I. B. (with Skopina, M. A.) A Tauberian theorem for Fourier-Legendre series. 90i:42038
 Bourdon, Paul (with Shapiro, Joel H.; Sledd, William T.) Fourier series, mean Lipschitz spaces, and bounded mean oscillation. 90j:42011
 Bukin, K. A. A multidimensional Tauberian theorem with a remainder for the Laplace transform. (Russian) 90d:44002
 Eason, Matts Tauberian theorems, convolutions and some results of D. C. Russell. 90m:26027
 Flajolet, Philippe (with Odlyzko, Andrew M.) Singularity analysis of generating functions. 90m:05012
 Joó, István On some problems raised in connection with eigenfunction expansions. 90k:42008
 Odlyzko, Andrew M. *see* Flajolet, Philippe, 90m:05012
 Shapiro, Joel H. *see* Bourdon, Paul; et al., 90j:42011
 Skopina, M. A. *see* Bashmakova, I. B., 90i:42038
 Sledd, William T. *see* Bourdon, Paul; et al., 90j:42011

40F05 Absolute and strong summability

- Al-Madi, Azmi K. Partial results on translatability of absolute Rogosinski-Bernstein summability methods. 90g:40009
 — On absolute Rogosinski-Bernstein summability methods of different orders. 90j:40011

- Beckmann, Wolfgang (with Zeller, Karl) Positivity in absolute summability. 90h:40004
 Bor, H. On the absolute summability factors for infinite series. 90c:40008
 — On the $[N, p_n]$ summability factors of infinite series. 90i:40020
 — Absolute summability factors for infinite series. 90j:40012
 — (with Kuttner, B.) On the necessary conditions for absolute weighted arithmetic mean summability factors. 90i:40019
 — A note on some absolute summability methods. 90i:40021
 Borwein, David (with Cass, F. P.; Sayre, J. E.) On strong generalized Hausdorff summability. 90d:40008
 Cass, F. P. *see* Borwein, David; et al., 90d:40008
 Das, Gokulananda (with Patel, B. K.) Lacunary distribution of sequences. 90d:40009
 Devi, Pratiba *see* Mahapatra, P. C., 90c:40006
 Kuttner, B. *see* Bor, H., 90i:40019
 Maddox, I. J. Eigenvalues of absolute Cesàro matrices. 90f:40007
 Mahapatra, P. C. (with Devi, Pratiba) Absolute inclusion relation on Riesz summability. 90c:40006
 Malkowsky, Eberhard Matrix transformations in certain spaces of strongly Cesàro summable and bounded sequences. 90f:40008
 Mishra, Babhan Prasad (with Pathak, Sachchida Nand) Strong summability of functions based on $A(C, k)$ summability methods. 90j:40013
 Mohanty, P. C. *see* Sukla, I., 90j:40014
 Niinepuu, K. *see* Soomer, V., 90g:40011
 Nurcombe, J. R. On absolute Nörlund and Abel summability. 90k:40008
 Patel, B. K. *see* Das, Gokulananda, 90d:40009
 Pathak, H. K. On the generalized absolute Nörlund summability factors of infinite series. 90c:40009
 Pathak, Sachchida Nand *see* Mishra, Babhan Prasad, 90j:40013
 Polyanova, M. F. Conditions for absolute summability of the Cauchy product of two numerical series. (Russian) *see* 90m:00015
 Ratti, J. S. Dirichlet product of summable series. 90m:40007
 Rantala, S. S. On the absolute summability by logarithmic means of the ultraspherical series. 90d:40010
 Samarskaya, T. A. Absolute and uniform convergence of expansions in root functions of a nonlocal boundary value problem of the first kind. 90i:40022
 Sarigül, M. Ali On $[C, 1]_k$ summability factors. 90h:40012
 Savas, Ekrem On strong σ -convergence. 90c:40023
 Sayre, J. E. *see* Borwein, David; et al., 90d:40008
 Singh, Niranjan Absolute Riesz summability of a Dirichlet series. 90g:40010
 Soomer, V. (with Niinepuu, K.) Sequential methods for strong summation, and multipliers. (Russian. English summary) 90g:40011
 Sukla, I. (with Mohanty, P. C.) Absolute Riesz summability factors. 90j:40014
 Sulaiman, W. T. On $[C, 1]$ -summability of Laguerre series at origin. 90d:40011
 Szalay, L. On the strong Cesàro summability of double orthogonal series. 90h:40013
 Tripathi, L. M. (with Tripathi, V. N.; Yadav, S. J.) On $[N, p_n]_k$ summability factors of an infinite series. 90b:40014
 Tripathi, V. N. *see* Tripathi, L. M.; et al., 90b:40014
 Yadav, S. J. *see* Tripathi, L. M.; et al., 90b:40014
 Zeller, Karl *see* Beckmann, Wolfgang, 90h:40004

Items with secondary classifications in 40F05

- Bor, H. A relation between two summability methods. 90i:40012
 Chun, Chung Suh (with Freedman, Allen R.) A bounded consistency theorem for strong summabilities. 90i:40011
 Connor, Jeff On strong matrix summability with respect to a modulus and statistical convergence. 90i:40008
 Firlje, Barbara (with Rempulka, Lucyna) On the absolute and strong summability of numerical and orthogonal series by the methods connected with the Dirichlet problem for an elliptic domain. 90m:40010
 Freedman, Allen R. *see* Chun, Chung Suh, 90i:40011
 Jena, S. C. (with Padhi, Padmini) Absolute matrix summability of the allied series of a Fourier series. 90i:42017
 Kuttner, B. (with Rhoades, B. E.) Absolute Nörlund matrix summability of Fourier series based on inclusion theorems. 90f:42007
 Padhi, Padmini *see* Jena, S. C., 90i:42017
 Rempulka, Lucyna On the summability of numerical and orthogonal series by the (B, n) -method. 90b:40009
 — *see also* Firlje, Barbara, 90m:40010
 Rhoades, B. E. *see* Kuttner, B., 90f:42007
 Sarigül, M. Ali On $[N, p_n]_k$ summability factors. 90i:40025
 Waszak, A. Sets of approximable elements in double sequence spaces. 90h:46014

40Gxx Special methods of summability

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

- Chandra, Prem (with Sharma, M. M.) A note on the absolute Euler summability of Legendre series. 90d:40012
 Dalela, A. K. *see* Prakash, Ved; et al., (Not in MR)
 Das, Gokulananda (with Nanda, Sudarsan) Functional limits. 90i:40024
 DeFranza, J. (with Fleming, D. J.) On the Bohr-Hardy criteria. 90a:40003
 Fleming, D. J. *see* DeFranza, J., 90a:40003
 Khare, Satya Prakash (with Tripathi, Surendra Kumar) (N, p, q) summability of Jacobi series. 90g:40012
 Kärle, H.-H. Some generalized harmonic and the Cesàro mean. 90m:40008
 Kuttner, B. (with Parameswaran, M. R.) A theorem on the representation of certain sequence spaces. 90c:40007
 Nanda, Sudarsan *see* Das, Gokulananda, 90i:40024
 Panda, S. P. *see* Samantary, U. N., 90a:40004

- Pandey, G. S. Multipliers for $[C, I]$ summability of Jacobi series. 90g:40013
 Pandey, S. Multipliers for the convergence of Jacobi series in Banach spaces. 90g:40014
 Parameswaran, M. R. *see* Kuttner, B. 90c:40007
 Prakash, Ved (with Verma, S. K.; Dalela, A. K.) On the uniform Nörlund summability of Legendre series. (Not in MR)
 Rhoades, B. E. Matrix transformations of orthonormal series. 90d:40013
 Samantary, U. N. (with Panda, S. P.) On the consistency of limitation methods for (N, p, q) summable sequences. 90a:40004
 Sarigöl, M. Ali On $[N, P, \lambda]_k$ summability factors. 90i:40025
 Sharma, M. M. *see* Chandra, Prem. 90d:40012
 Singh, K. N. On the uniform Nörlund summability of Legendre series. 90c:40008
 Sulaiman, W. T. Some multipliers for the $[C, I]$ summability of Laplace series. 90k:40009
 Tall, A. A new family of generalized methods for Nörlund summability. (Russian. English summary) 90j:40015
 Tripathi, Surendra Kumar *see* Khare, Satya Prakash. 90g:40012
 Trivedi, G. S. Absolute Cesàro summability of Laguerre series. (Hindi. English summary) 90g:40015
 Verma, S. K. *see* Prakash, Ved; et al., (Not in MR)

Items with secondary classifications in 40G05

- Al-Madi, Azmi K. Translative of generalized Nörlund transformation. 90m:40005
 Armitage, David H. (with Maddox, I. J.) A new type of Cesàro mean. 90i:40014
 Beekmann, Wolfgang (with Zeller, Karl) Positivity in absolute summability. 90k:40004
 Bingham, N. H. Tauberian theorems for Jakimovski and Karamata-Stirling methods. 90i:40006
 Bor, H. Corrigendum: "On the absolute summability factors of infinite series" [Comm. Fac. Sci. Univ. Ankara Sér. A1 Math. 33 (1984), no. 24, 193-197; MR 88m:40009]. 90b:40008
 — A relation between two summability methods. 90i:40012
 — Absolute summability factors for infinite series. 90j:40012
 — A note on some absolute summability methods. 90i:40021
 Borwein, David (with Cass, F. P.; Sayre, J. E.) On strong generalized Hausdorff summability. 90d:40006
 Cass, F. P. *see* Borwein, David; et al., 90d:40008
 Das, Gokulananda (with Guru, N.) Functional Nörlund methods. 90d:40014
 — (with Patel, B. K.) Lacunary distribution of sequences. 90d:40009
 Gávruta, P. On generalized Hausdorff operators. 90g:47046
 Guru, N. *see* Das, Gokulananda. 90d:40014
 Hotta, G. C. (with Padhi, T. C.) A note on $[N, p, \lambda]$ summability of an associated conjugate series of a Fourier series. (Not in MR)
 Jena, S. C. (with Swamy, N. N.) Absolute summability of the conjugate series of a Fourier series. 90b:42018
 Kuttner, B. (with Rhoades, B. E.) Absolute Nörlund matrix summability of Fourier series based on inclusion theorems. 90e:42007
 Lépasse, I. On conditions for Cesàro sectional summability and for Cesàro sectional boundedness for spaces of double sequences and Fourier series. (Russian. English summary) 90k:40003
 Maddox, I. J. A Tauberian theorem for ordered spaces. 90i:40015
 — *see also* Armitage, David H., 90i:40014
 Nurcombe, J. R. On absolute Nörlund and Abel summability. 90k:40008
 Okutani, J. I. On the spectrum of C_1 as an operator on bv_0 . 90j:47026
 Padhi, T. C. *see* Hotta, G. C., (Not in MR)
 Parameswaran, M. R. On the Endi-type generalization of certain summability methods. 90i:40016
 Patel, B. K. *see* Das, Gokulananda. 90d:40009
 Pathak, H. K. On the generalized absolute Nörlund summability factors of infinite series. 90c:40009
 Rhoades, B. E. *see* Kuttner, B., 90e:42007
 Sayre, J. E. *see* Borwein, David; et al., 90d:40008
 Swamy, N. N. *see* Jena, S. C., 90b:42018
 Szalay, I. On the strong Cesàro summability of double orthogonal series. 90b:40013
 Zeller, Karl *see* Beekmann, Wolfgang. 90k:40004

40G10 Abel, Borel and power series methods

- Firlej, Barbara (with Rempulka, Lucyna) On the absolute and strong summability of numerical and orthogonal series by the methods connected with the Dirichlet problem for an elliptic domain. 90m:40010
 Markiewicz, Teresa (with Rempulka, Lucyna) On the summability methods connected with the Dirichlet problem for an elliptic domain. 90m:40009
 Rempulka, Lucyna *see* Markiewicz, Teresa. 90m:40009 and Firlej, Barbara. 90m:40010
 Items with secondary classifications in 40G10
 Bashmakova, I. B. (with Skopina, M. A.) A Tauberian theorem for Fourier-Legendre series. 90i:42038
 Bingham, N. H. Tauberian theorems for Jakimovski and Karamata-Stirling methods. 90i:40006
 Khan, Huzoor H. (with Ram, Govind) On the degree of approximation. II. 90g:42005
 Kratz, Werner (with Stadtmüller, Ulrich) Tauberian theorems for general J_p -methods and a characterization of dominated variation. 90d:40006
 Mazhar, S. M. On (J, p_n) summability of Fourier series. 90h:42013a
 — Corrigendum: "On (J, p_n) summability of Fourier series". 90h:42013b
 Nurcombe, J. R. On absolute Nörlund and Abel summability. 90k:40008
 Potekha, A. On the summability by the Abel method of expansions in eigenfunctions. (Russian. English and Lithuanian summaries) 90f:35156
 Ram, Govind *see* Khan, Huzoor H., 90g:42005
 Rempulka, Lucyna On the summability of numerical and orthogonal series by the (B, n) -method. 90h:40009
 Skopina, M. A. *see* Bashmakova, I. B., 90i:42038
 Stadtmüller, Ulrich *see* Kratz, Werner. 90d:40006

40G99 None of the above, but in this section

- Gui, Bing Zhen A summation method for infinite series. (Chinese. English summary) 90k:40010
 Poluyanov, M. F. Conditions for the summability of the Cauchy product of two numerical series by Voronoi methods. (Russian) 90k:40011
 Rangaschari, M. S. A corrigendum to: "On Lambert and Ingham summability" [J. Nat. Acad. Math. India 3 (1985), 145-152; MR 88e:40006]. 90c:40009
 Items with secondary classifications in 40G99
 Al-Madi, Azmi K. Partial results on translative of absolute Rogosinski-Bernstein summability methods. 90g:40009
 — On translative of weighted mean summability methods. 90m:40004
 Kwee, B. The relation between the Borel and Riesz methods of summation. 90g:40007
 Mohapatra, Ram Narayan Degree of approximation of Hölder continuous functions. 90i:42001
 Singh, Niranjan Absolute Riesz summability of a Dirichlet series. 90g:40010
 Wei, Yu Chuen Regularity of "F" method of summability of sequences. 90k:40001

40H05 Functional analytic methods in summability

- Chun, Chung Suh (with Freedman, Allen R.) Theorems and examples for R -type summability methods. 90c:40010
 Das, Gokulananda (with Guru, N.) Functional Nörlund methods. 90d:40014
 DeFranza, J. (with Fleming, D. J.) Sequence spaces and summability factors. 90c:40011
 Fleming, D. J. *see* DeFranza, J., 90c:40011
 Freedman, Allen R. *see* Chun, Chung Suh. 90c:40010
 Guru, N. *see* Das, Gokulananda. 90d:40014
 Jakimovski, Amnon (with Russell, Dennis; Stieglitz, Michael) Toeplitz bases in matrix fields. 90a:40005
 — (with Russell, Dennis; Stieglitz, Michael) On multipliers in sequence spaces and a theorem of Bosanquet. 90k:40012
 Liu, Yu Qiang Banach sequence spaces equipped with sequential norms. 90j:40016
 Russell, Dennis *see* Jakimovski, Amnon; et al., 90a:40005 and 90k:40012
 Samarutunga, R. T. (with Sember, J. J.) Summability and substructures of 2^N . 90c:40012
 Sarav, Ekrem Paranormed sequence spaces generated by infinite matrices. 90b:40015
 Sember, J. J. *see* Samarutunga, R. T., 90c:40012
 Stieglitz, Michael *see* Jakimovski, Amnon; et al., 90a:40005 and 90k:40012
 Items with secondary classifications in 40H05
 Akharov, S. S. Power series with coefficients in nonnormed spaces. (Russian. English and Armenian summaries) 90j:40001
 Boos, Johann (with Leiger, Toivo) General theorems of Mazur-Orlicz type. 90c:46013
 Chandrasekhara Rao, K. Spaces of matrix operators. 90c:40002
 Chun, Chung Suh (with Freedman, Allen R.) A bounded consistency theorem for strong summabilities. 90i:40011
 Freedman, Allen R. *see* Chun, Chung Suh. 90i:40011
 Giorgobiani, G. D. Structure of the set of sums of a conditionally convergent series in a p -normed space. (Russian. English and Georgian summaries) 90f:46009
 Kadets, V. M. A domain of sums of weakly convergent series. 90j:40004
 Leiger, Toivo *see* Boos, Johann. 90c:46013
 Lah, Yvonne Some matrix transformations between the sequence spaces $l(p)$, $l_\infty(p)$, $c(p)$, $c_0(p)$ and $w(p)$. 90g:40005
 Maddox, I. J. A Tauberian theorem for ordered spaces. 90i:40015
 Martins, Jorge Antonio Sampaio Arithmetic and geometric means, an application to Lorentz sequence spaces. 90b:40002
 Nanda, Sudarsan Matrix transformations in some sequence spaces. 90k:40004
 Noll, Dominikus (with Stadler, Wolfgang) Weakening Tauberian conditions for summability methods. 90j:40010
 Sarav, Ekrem Some sequence spaces involving invariant means. 90h:46013
 Stadler, Wolfgang *see* Noll, Dominikus. 90j:40010

40J05 Summability in abstract structures [see also 43A55, 46A35, 46B15]

- Maeda, Shigeru Spectral resolution of a certain summation of series. 90j:40017
 Items with secondary classifications in 40J05
 Antosik, Piotr On interchange of limits. 90c:40001
 Beekmann, Wolfgang (with Chang, Shao-Chien) Some distinguished subsets of FK-spaces containing ϕ . 90k:46019
 Chang, Shao-Chien *see* Beekmann, Wolfgang. 90k:46019
 Georgobiani, G. Dzh. Some remarks on the set of sums of a conditionally convergent series in a Banach space. (Russian) 90c:46018
 Leiger, Toivo (with Plasko, K.) Conull and coregular operator summation matrices. (Russian. German summary) 90k:40005
 Plasko, K. *see* Leiger, Toivo. 90k:40005
 Sarav, Ekrem Some sequence spaces involving invariant means. 90h:46013
 Sersouri, A. ω -independence in nonseparable Banach spaces. 90a:46021

41-XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

41-00 Handbooks, dictionaries, and other reference works

Altomare, F. (with Campiti, Michele) A bibliography on the Korovkin type approximation theory (1952-1987). 90m:41001

Campiti, Michele see Altomare, F., 90m:41001

Items with secondary classifications in 41-00

(Gankrellidze, R. V.) see Analysis, 90j:00027

Micula, G. ★ Theorie und Anwendung von Spline-Funktionen. [Theory and application of spline functions] 90g:41014

(Newton, Dan) see Analysis, 90j:00027

(Törnsig, Willi) see Micula, G., 90g:41014

Items listed otherwise than by author

Analysis ★ Analysis. I. 90j:00027

Encyclopedia of Mathematical Sciences ★ Analysis. I. 90j:00027

41-01 Elementary exposition; textbooks

Baker, G. B. (with Mills, T. M.) Lagrange interpolation—divergence. (Not in MR)

Mills, T. M. see Baker, G. B., (Not in MR)

41-02 Advanced exposition (research surveys, monographs, etc.)

Kannan, V. A problem in approximation theory. 90b:41001

(Kuznetsov, Yuri Alekseevich) see Sendov, Bl., 90e:41001

(Osolkov, K. I.) see Sendov, Bl., 90e:41001

Papov, Vasil Atanasov see Sendov, Bl., 90e:41001

Sendov, Bl. (with Popov, Vasil Atanasov) ★ Усредненные модули гладкости. (Russian) [Averaged moduli of smoothness] 90e:41001

Shen, Xie Chang The Weierstrass approximation theorem and its application. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 41-02

Druzyak, V. K. ★ Аппроксимационные методы решения дифференциальных и интегральных уравнений. (Russian) [Approximation methods for solving differential and integral equations] 90b:45002

Lablinsky, D. S. ★ Strong asymptotics for extremal errors and polynomials associated with Erdős-type weights. 90e:41014

Pinkus, Allan M. ★ On L^1 -approximation. 90j:41046

Zhuk, V. V. ★ Сильная аппроксимация периодических функций. (Russian) [Strong approximation of periodic functions] 90g:42008

41-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 41-03

Baker, G. B. (with Mills, T. M.) Lagrange interpolation—divergence. (Not in MR)

Mills, T. M. see Baker, G. B., (Not in MR)

Siegmund-Schultze, Reinhard Der Beweis des Weierstraßschen Approximationssatzes 1885 vor dem Hintergrund der Entwicklung der Fourieranalysis. (English and Russian summaries) [The proof of Weierstrass' approximation theorem of 1885 against the background of the development of Fourier analysis] 90h:01034

41-04 Explicit machine computation and programs (not the theory of computation or programming)

Djordjević, Djordje R. see Kocić, Ljubika M.; et al., (Not in MR)

Kocić, Ljubika M. (with Milovanović, Gradimir V.; Djordjević, Djordje R.) Spline approximation via convex programming. (Not in MR)

Milovanović, Gradimir V. see Kocić, Ljubika M.; et al., (Not in MR)

41-06 Proceedings, conferences, etc.

(Choi, C. K.) see Multivariate approximation theory, 90j:41001

(Drydyk, V. K.) see Harmonic analysis and the development of approximation methods, 90m:41002

(Gohberg, I.) see Orthogonal matrix-valued polynomials and applications, 90k:41001

(Ivanov, Kamen G.) see Constructive theory of functions, 90a:41001

(Maleev, R. P.) see Constructive theory of functions, 90a:41001

(Motornyi, V. P.) see Investigations in current problems in summation and the approximation of functions and their applications, 90h:41001

(Nepalkov, V. V.) see All-Union Symposium: Theory of the Approximation of Functions, 90c:41001

(Petrushin, P. P.) see Constructive theory of functions, 90a:41001

(Pinchuk, S. I.) see Studies in the theory of approximation of functions, 90d:41001

(Schemp, Walter) see Multivariate approximation theory, 90j:41001

(Sendov, Bl.) see Constructive theory of functions, 90a:41001

(Videnskii, V. S.) see Operators and their applications, 90e:41001

(Zeller, Karl) see Multivariate approximation theory, 90j:41001

Items listed otherwise than by author

All-Union Symposium:

Theory of the Approximation of Functions ★ Всесоюзный Симпозиум по Теории Приближения Функций. (Russian) [All-Union Symposium on the Theory of the Approximation of Functions] 90c:41001

Cluj-Napoca ★ Itinerant Seminar on Functional Equations, Approximation and Convexity. 90m:41003

Conference:

Constructive Function Theory ★ Constructive Function Theory—86 Conference. 90e:41001

Constructive Theory of Functions ★ Constructive theory of functions. 90a:41001

Multivariate Approximation Theory ★ Multivariate approximation theory. IV. 90j:41001

Constructive theory of functions ★ Constructive theory of functions. 90a:41001

Edmonton, AB ★ Constructive Function Theory—86 Conference. 90e:41001

Harmonic analysis and the development of approximation methods ★ Гармонический анализ и развитие аппроксимационных методов. (Russian) [Harmonic analysis and the development of approximation methods] 90m:41002

Investigations in current problems in summation and the approximation of functions and their applications ★ Исследования по современным проблемам суммирования и приближения функций и их приложениям. (Russian) [Investigations in current problems in summation and the approximation of functions and their applications] 90h:41001

Multivariate approximation theory ★ Multivariate approximation theory. IV. 90j:41001

Operators and their applications ★ Операторы и их приложения. (Russian) [Operators and their applications] 90e:41001

Orthogonal matrix-valued polynomials and applications ★ Orthogonal matrix-valued polynomials and applications. 90k:41001

Seminar:

Functional Equations, Approximation and Convexity ★ Itinerant Seminar on Functional Equations, Approximation and Convexity. 90m:41003

Operator Theory ★ Orthogonal matrix-valued polynomials and applications. 90k:41001

Studies in the theory of approximation of functions ★ Исследования по теории аппроксимации функций. (Russian) [Studies in the theory of approximation of functions] 90d:41001

Tel Aviv ★ Orthogonal matrix-valued polynomials and applications. 90k:41001

Varma ★ Constructive theory of functions. 90a:41001

Items with secondary classifications in 41-06

(Nikol'skii, S. M.) see Theory of functions and approximations, 90d:00046; Studies in the theory of differentiable functions of several variables and its applications, 90e:46002 and Theory of functions and approximations, 90i:00006

(Stechkin, S. B.) see All-Union School: Theory of Functions, 90a:00020

(Taikov, L. V.) see Application of functional analysis in approximation theory, 90m:00015

Items listed otherwise than by author

All-Union School:

Theory of Functions ★ Сборник трудов Всесоюзной Школы по Теории Функций. (Russian) [A collection of papers from the All-Union School on the Theory of Functions] 90a:00020

Application of functional analysis in approximation theory ★ Применение функционального анализа в теории приближения. (Russian) [Application of functional analysis in approximation theory] 90m:00015

Dushanbe ★ Сборник трудов Всесоюзной Школы по Теории Функций. (Russian) [A collection of papers from the All-Union School on the Theory of Functions] 90a:00020

Saratov ★ Теория функций и приближения. Часть 3. (Russian) [Theory of functions and approximations. Part 3] 90d:00046

— ★ Теория функций и приближения. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

School:

Theory of Functions and Approximations ★ Теория функций и приближения. Часть 3. (Russian) [Theory of functions and approximations. Part 3] 90d:00046

— ★ Теория функций и приближения. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

Studies in the theory of differentiable functions of several variables and its applications ★ Исследования по теории дифференцируемых функций многих переменных и ее приложениям. 13. (Russian) [Studies in the theory of differentiable functions of several variables and its applications. 13] 90e:46002

Theory of functions and approximations ★ Теория функций и приближения. Часть 3. (Russian) [Theory of functions and approximations. Part 3] 90d:00046

— ★ Теория функций и приближения. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

— ★ Теория функций и приближения. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

— ★ Теория функций и приближения. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

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— ★ Теория функций и приближения. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

— ★ Теория функций и приближения. Часть 1. (Russian) [Theory of functions and approximations. Part 1] 90i:00006

41A05 Interpolation [see also 42A15 and 65D05]

Akhlaghi, M. R. On L_p -convergence of nonpolynomial interpolation. 90h:41002

Anderson, Brian D. O. see Antoulas, A. C., 90e:41002

Antoulas, A. C. (with Anderson, Brian D. O.) On the problem of stable rational interpolation. 90e:41002

Balkas, Katherine Convergence of the derivatives of Lagrange interpolating polynomials based on the roots of Hermite polynomials. 90h:41002

Bazilev, M. S. see Totok, G. A., 90j:41006

Berman, D. L. Investigation of Hermite-Fejér interpolation processes with boundary conditions. (Russian) (see 90d:00009)

— Interpolation processes with boundary conditions. (Russian) 90c:41002

— An interpolation process of Hermite-Fejér type. (Russian) 90k:41002

— A note on the extended Hermite-Fejér interpolation. 90h:41003

- Bettger, Manfred Uniform convergence of modified Hermite-Fejér interpolation processes. 90d:41002
- Buhmann, M. D. Cardinal interpolation with radial basis functions: an integral transform approach. 90m:41004
- Butzer, P. L. (with Hinsen, G.) Two-dimensional nonuniform sampling expansions—an iterative approach. I. Theory of two-dimensional bandlimited signals. 90j:41002
- (with Hinsen, G.) Two-dimensional nonuniform sampling expansions—an iterative approach. II. Reconstruction formulae and applications. 90j:41003
- Coman, Gh. Shepard-Taylor interpolation. (see 90b:00008)
- (with Tâmbulea, Leon) A Shepard-Taylor approximation formula. (Romanian summary) 90d:41003
- Davydov, O. V. A Lagrange interpolation polynomial over equidistant nodes that does not converge in measure to the function $|x|$ on $[-1, 1]$. (Russian) 90i:41004
- Didkovskaya, N. V. Generalization to interpolation classes of the Bernstein-Krein theorem and its converse. (Russian) (see 90d:00009)
- Demtchen, Asen L. (with Kalchev, Bl. D.) Duality and well-posedness in convex interpolation. 90m:41005
- Dya, N. (with Lubinsky, D. S.) Convergence of interpolation to transforms of totally positive kernels. 90b:41004
- Eendruweit, Sylvanus A. N. On the modified Pál-type interpolation polynomials. 90b:41005
- Erdős, Paul (with Kroó, András; Szabados, J.) On convergent interpolatory polynomials. 90b:41003
- Fawzy, Th. Notes on lacunary interpolation by splines. II. $(0, 2)$ interpolation. 90b:41003a
- Notes on lacunary interpolation with splines. III. $(0, 2)$ -interpolation with quintic G -splines. 90b:41003b
- (with Holail, F.) Notes on lacunary interpolation with splines. IV. $(0, 2)$ interpolation with splines of degree 6. 90b:41003c
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- Kaishev, V. K. see Ignatov, Tsvetan G., 90j:62019
- Kamada, Masaru (with Toraiichi, Kazuo; Mori, Ryoichi) Spline function approach to digital signal processing. 90a:94009
- see also Wang, Qi; et al., (Not in MR)
- Kappel, F. (with Salamon, Dietmar) On the stability properties of spline approximations for retarded systems. 90a:34174
- Kim, Yong Ho Representation of solutions of neutral functional-differential equations and spline approximations. (Korean. English summary) 90m:34157
- Koch, Per Erik Multivariate trigonometric B -splines. 90d:42004
- Kocić, Ljubila M. (with Milovanović, Gradimir V.; Djordjević, Djordje R.) Spline approximation via convex programming. (Not in MR)
- Koa, M. A. (with Tempo, Roberto) On linearity of spline algorithms. 90k:65043
- Kovačević, Milan A. see Milovanović, Gradimir V., 90f:65026
- Kozak, Jernej (with Lokar, Matija) On bounded tension interpolation. 90a:65017
- see also Feng, Yu Yu, 90c:65016
- Kvasov, B. I. (with Yatsenko, S. A.) Isogeometric interpolation by rational splines. (Russian) 90c:65024
- Lee, E. T. Y. Yet another proof of knot insertion. 90c:65026
- Lee, Seng Luan see Goodman, T. N. T., 90j:42004
- Lenze, Burkhard On the explicit solution of a time-optimal control problem by means of one-sided spline approximation. 90c:9069
- On one-sided spline approximation operators. 90a:41002
- Lokar, Matija see Kozak, Jernej, 90a:65017
- Lyche, T. (with Mørken, K.) A data-reduction strategy for splines with applications to the approximation of functions and data. 90c:65027
- Meinardus, Günter (with Nürnberger, Günther; Sommer, Manfred; Strauss, Hans) Algorithms for piecewise polynomials and splines with free knots. 90d:65033
- Meleshko, I. N. On an approximate solution of a singular integro-differential equation. 90j:45018
- Micchelli, Charles A. (with Prautzsch, Hartmut) Refinement and subdivision for spaces of integer translates of a compactly supported function. 90b:65016
- see also Dyn, N., 90a:65020; Dahmen, Wolfgang, 90f:11018 and 90g:41005
- Milovanović, Gradimir V. (with Kovačević, Milan A.) Moment-preserving spline approximation and Turán quadratures. 90f:65026
- see also Kocić, Ljubila M.; et al., (Not in MR)
- Mori, Ryoichi see Kamada, Masaru; et al., 90a:94009 and Wang, Qi; et al., (Not in MR)
- Mørken, K. see Lyche, T., 90c:65027
- Müllerheim, Gregor Numerical treatment of two-point boundary value problems with spline functions. (see 90a:41001)
- Some new recursion relations for spline functions with application to spline collocation. 90f:65027
- Mummy, Mark S. Hermite interpolation with B -splines. 90d:65034
- Narayanawamy, Indira Simultaneous approximation and interpolation with norm-preserving by Tchebysheffian splines. 90c:41035
- Neuman, E. Inequalities involving multivariate convex functions. II. 90k:26041
- Nürnberger, Günther see Meinardus, Günter; et al., 90d:65033
- Patrikakis, Nicholas M. Approximate conversion of rational splines. 90a:65028
- Peichl, Gunther H. see Burns, John A., 90j:34107
- Pendina, T. P. see Videnskii, V. S., (90d:00009)
- Perrier, V. (with Basdevant, C.) Periodical wavelet analysis, a tool for inhomogeneous field investigation. Theory and algorithms. 90j:42067
- Plakus, Allan M. On smoothest interpolants. 90c:41004
- Poggio, T. (with Giroli, F.) Regularization algorithms for learning that are equivalent to multilayer networks. 90k:92076
- Pogorelec, A. G. Construction of smoothing splines by linear programming methods. 90k:65047

- Popov, B. A. Methods for determining boundaries of segments in the process of asymptotically uniform approximation by splines. (Russian) **90c:65028**
- Pottmann, Helmut Curves and tensor product surfaces with third order geometric continuity. **90c:65021**
- Prattich, Hartmut *see* Mitchell, Charles A., **90b:65016**
- Preater, P. M. \star Splines and variational methods. **90j:65001**
- Propst, Georg *see* Burns, John A.; et al., **90c:65236**
- von Radziewski, Karla Bivariate Hermite spline interpolation. **90b:41011**
- Reimer, M. Zur reellen Darstellung periodischer Hermite-Spline-Interpolierender bei äquidistantem Gitter mit Knotenshift. [On the real representation of periodic Hermite-spline interpolants in the case of an equidistant grid with shift of nodes] **90c:65015**
- Riemenschneider, S. D. *see* de Boor, Carl; et al., **90b:39002**
- Romanov, V. S. Uniqueness of the Chebyshev spline of best approximation in the mean for a class of functions that have at most one point of discontinuity. (Russian) **90c:65013**
- Rose, L. L. *see* Billera, L. J., **90c:65032**
- Sakai, Masaharu (with Schmidt, Jochen W.) Positive interpolation with rational splines. **90c:65014**
- Salamon, Dietmar *see* Kappel, F., **90c:34174**
- Schmidt, Jochen W. Results and problems in shape preserving interpolation and approximation with polynomial splines. **90c:65028**
- (with Hess, Walter Paul) Spline interpolation under two-sided restrictions on the derivatives. (German and Russian summaries) **90j:65017**
- *see also* Sakai, Masaharu, **90c:65014**
- Schmidt, Michael *see* Butzer, P. L.; et al., **90b:01042** and **90c:05007**
- Schumaker, Larry L. On super splines and finite elements. **90c:65016**
- Sendov, Bl. Approximation splines. **90c:65033**
- Sha, Zhen (with Xuan, Pei Cai) On interpolation by S_3^1 . II. (Chinese. English summary) **90c:65015**
- Shadrin, A. Ya. The rate of convergence of interpolation splines given on nonuniform grids. **90c:65034**
- Sommer, Manfred *see* Meinardus, Günter; et al., **90c:65033**
- Song, Chang Ho The dual solution method of one minimization problem with restriction on gradient of unknown function. II. (Korean. English summary) **90k:49023**
- Sonnensend, G. Necessary and sufficient conditions for interpolation with functions having monotone r th derivatives. (Russian summary) **90b:41008**
- Stark, E. L. *see* Butzer, P. L.; et al., **90b:01042** and **90c:05007**
- Strass, Hans *see* Meinardus, Günter; et al., **90c:65033**
- Szabotits, Yu. N. The dependence of estimates of a multidimensional piecewise-polynomial approximation on the geometric characteristics of a triangulation. (Russian) **90b:41009**
- Sun, Yong Sheng (with Huang, Da Ren; Fang, Gen Sun) Extremal problems on some classes of differentiable functions. (see **90a:41001**)
- Tempe, Roberto *see* Kim, M. A., **90c:65043**
- Torachi, Kazuo *see* Kamada, Masaru; et al., **90c:54009** and Wang, Qi; et al., (Not in MR)
- Utreras, Florencio L. Boundary effects on convergence rates for Tikhonov regularization. **90c:65029**
- Varma, A. K. *see* Howell, Gary, **90c:65020**
- Videnskii, V. S. (with Pendina, T. P.) Bernstein modification of linear interpolation splines. (Russian) (see **90d:90009**)
- Vogt, L. *see* Butzer, P. L.; et al., **90c:05007**
- Wang, Qi (with Torachi, Kazuo; Kamada, Masaru; Mori, Ryoichi) Circuit design of a D/A converter using spline functions. (French and German summaries) (Not in MR)
- Xuan, Pei Cai *see* Sha, Zhen, **90c:65015**
- Yatsenko, S. A. *see* Kvasov, B. I., **90c:65024**
- Ye, Zai Fei (with Huang, Da Ren) An upper bound for the number of zeros of an HB-spline. (Chinese. English summary) **90c:65018**
- Zhang, Hong Wei¹ An exponential approximation method. (Chinese. English summary) **90c:65038**
- Zheleznov, V. A. Approximation remainder terms for local splines of second and fourth degree. **90c:65035**
- Zheng, De Chuan A class of composite splines. (Chinese. English summary) **90c:65030**
- Zhenskybaev, A. A. On monosplines with nonnegative coefficients. **90c:41053**
- Zmatrakov, N. L. Convergence of multiple interpolational splines and their derivatives. (Russian) **90b:41010**

41A17 Inequalities in approximation (Bernstein, Jackson, Nikol'skii type inequalities)

- Aves, A. Un théorème de Haar. (English summary) [A theorem of Haar] **90c:41008**
- Dechevski, L. T. On the constants of equivalence between some functional moduli and K -functionals. **90k:41020**
- Erdélyi, T. Markov type estimates for the derivatives of constrained polynomials. **90c:41025**
- Markov-type estimates for certain classes of constrained polynomials. **90c:41009**
- Weighted Markov-type estimates for the derivatives of constrained polynomials on $[0, \infty)$. **90b:41018**
- Fang, Gen Sun On exact constant in Jackson type inequality. **90c:41025**
- Geotheluck, Pierre On a polynomial inequality connected with the multivariate Markov inequality. **90c:41008**
- Kolyada, V. I. On the relations between moduli of continuity in various metrics. (Russian) **90c:41021**
- Lupas, Alexandru A q -analogue of the Bernstein operator. **90b:41026**
- Milovanović, Gradimir V. *see* Milovanović, Igor Ž., **90c:41025**
- Milovanović, Igor Ž. (with Milovanović, Gradimir V.) An extremal problem for algebraic polynomials with a prescribed zero. **90c:41025**
- Rahman, Q. I. (with Schmeisser, G.) Markoff type inequalities for curved majorants. **90c:41022**
- Romanyuk, A. S. An inequality of Bohr-Favard type, and the best m -term approximation of the classes $L_{p,p}^{\alpha}$ in the space L_p . (Russian) **90c:41010**
- Schmeisser, G. *see* Rahman, Q. I., **90c:41022**

- Timofeev, V. G. An extremal inequality of Landau type with iterated Laplace operators in $L_2(\mathbb{R}^m)$. (Russian) (see **90d:00046**)
- Turkay, I. G. An inequality of Jackson type for abstract functions. (Russian) **90b:41019**
- Zhao, Song Ping A pointwise inequality for derivatives of polynomials with positive coefficients. (Chinese. English summary) **90c:41026**

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- Badalyan, G. V. (with Edigaryan, V. M.) A method for obtaining an analogue of the V. A. Markov inequality for polynomials in the metric $L^p(0, 1)$, $1 < p < \infty$. (Russian. English and Armenian summaries) **90c:26030**
- Barrar, R. B. (with Boyanov, Borislav D.; Loeb, H. L.) Generalized polynomials of minimal norm. **90b:41047**
- Boyanov, Borislav D. *see* Barrar, R. B.; et al., **90c:41047**
- Cao, Jia Ding (with Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. **90c:41041a**
- (with Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. II. Gopengauz-type estimates. **90c:41041b**
- Dahlhaus, R. Pointwise approximation by algebraic polynomials. **90b:41012**
- Ditzian, Z. The modulus of smoothness and discrete data in a square domain. **90c:65017**
- (with Totik, V.) Remarks on Besov spaces and best polynomial approximation. **90c:41013**
- Multivariate Landau-Kolmogorov-type inequality. **90c:26023**
- Edigaryan, V. M. *see* Badalyan, G. V., **90c:26030**
- Erdélyi, T. (with Szabados, J.) Bernstein type inequalities for a class of polynomials. **90c:42001**
- Fabre, Caroline La meilleure constante pour un produit de polynômes. (English summary) [The best constant for a product of polynomials] **90c:30011**
- von Golitschek, M. (with Lorentz, G. G.) Bernstein inequalities in L_p , $0 \leq p \leq \infty$. **90b:26020**
- Gonska, Heinz H. Degree of approximation by lacunary interpolators: $(0, \dots, R-2, R)$ interpolation. **90c:41006**
- *see also* Cao, Jia Ding, **90c:41041a** and **90c:41041b**
- Ivanov, Kamen G. (with Totik, V.) Fast decreasing polynomials. **90c:26023**
- Jiang, Xun The saturation problem for a class of spherical linear means of multiple Fourier series. (Chinese) **90c:42018**
- Kovačević, Milan A. *see* Milovanović, Igor Ž., **(90c:65008)**
- Kuang, Ji Chang Approximation of elliptic Riesz means in real Hardy spaces $H^p(T)$. (Chinese. English summary) **90c:42025**
- Loeb, H. L. *see* Barrar, R. B.; et al., **90c:41047**
- Lorentz, G. G. Notes on approximation. **90c:41004**
- *see also* von Golitschek, M., **90b:26020**
- Mamedkhanov, Dz. I. (with Nerisyan, A. A.) Estimates between best approximations in classes of summable functions on curves of the complex plane. (Russian) **90j:30063**
- (McFaden, H. H.) *see* Temlyakov, V. N., **90c:00007**
- Milovanović, Gradimir V. (with Milovanović, Igor Ž.) An extremal problem for polynomials with nonnegative coefficients. III. **90c:26019**
- Milovanović, Igor Ž. (with Kovačević, Milan A.) An extremal problem for real algebraic polynomials. (see **90c:65008**)
- *see also* Milovanović, Gradimir V., **90b:26019**
- Nerisyan, A. A. *see* Mamedkhanov, Dz. I., **90j:30063**
- Palagallo, Judith A. (with Price, Thomas E., Jr.) Near-best approximation by averaging polynomial interpolants. **90c:41004**
- Price, Thomas E., Jr. *see* Palagallo, Judith A., **90c:41004**
- Razi, Q. *see* Umar, S., **90j:41039**
- Szabados, J. *see* Erdélyi, T., **90c:42001**
- Temlyakov, V. N. Approximation of functions with bounded mixed derivative. **90c:00007**
- Totik, V. Sharp converse theorem of L^p -polynomial approximation. **90c:41015**
- *see also* Ditzian, Z., **90b:41013** and Ivanov, Kamen G., **90c:26023**
- Umar, S. (with Razi, Q.) Approximation by modified Szász operators. **90j:41039**
- van Wickeren, E. Direct and inverse theorems for Bernstein polynomials in the space of Riemann integrable functions. **90c:41030**

41A20 Approximation by rational functions

- Bales, Laurence A. (with Karakashian, Ohannes A.; Serbin, Steve M.) On the stability of rational approximations to the cosine with only imaginary poles. **90c:41026**
- Brosowski, Bruno (with Guerreiro, Claudia) On the uniqueness and strong uniqueness of best rational Chebyshev-approximation. **90c:41027**
- Dunham, Charles B. Uniqueness of representation of rational functions. **90c:41009**
- Guerreiro, Claudia *see* Brosowski, Bruno, **90c:41027**
- Hilán González, Jesús On the rational approximation of H^p functions in the $L_p(\mu)$ metric. **90c:41022**
- Karakashian, Ohannes A. *see* Bales, Laurence A.; et al., **90c:41026**
- Khatamov, A. Rational approximation of convex functions of several variables in integral metrics. (Russian) (see **90d:00029**)
- Knopfmacher, Arnold (with Knopfmacher, John) Inverse polynomial expansions of Laurent series. **90c:41028**
- Knopfmacher, John *see* Knopfmacher, Arnold, **90c:41028**
- Konyagin, S. V. On continuous operators of generalized rational approximation. (Russian) **90c:41014**
- Koracheva, R. K. The density of alternation points of rational approximation to a real-valued function. **90c:41028**
- Moskova, E. S. (with Petrushev, P. P.) Characterization of the rational approximation in uniform metrics. **90c:41029**
- Ogawa, Shiro *see* Zhang, Guofeng, **90c:41011**

- Paramonov, P. V. Rational approximation near zero sets of functions. 90h:41029
- Petrushin, P. P. *see* Moskova, E. S., 90c:41029
- Ramazanov, G. M. Rational approximation of convex functions in an Orlicz metric. (Russian) 90c:41030
- Reddy, A. R. On rational approximation to $|x|$. 90h:41023
- Ruttan, Arden (with Varga, Richard S.) Real vs. complex rational Chebyshev approximation on an interval. 90h:41030
- Schmidt, Durrell Another case of nonexistence in rational Chebyshev approximation with interpolatory constraints. 90m:41026
- Serbin, Steve M. *see* Bales, Laurence A.; et al., 90c:41026
- Varga, Richard S. *see* Ruttan, Arden, 90h:41030
- Walbert, Daniel Complex approximation of real functions by reciprocals of polynomials. 90c:41031
- Zagirov, N. Sh. Order of approximation of step functions by rational fractions. (Russian) 90d:41026
- Zhang, Geofeng (with Ogawa, Shiro) Uniform convergence of multivariate interpolating rational functions. 90h:41011

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- Anderson, J.-E. Rational approximation to functions like x^n in integral norms. (Russian summary) 90a:30103
- Ball, Joseph A. (with Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. 90h:47002
- de Bruijn, M. G. Sudden symmetry in simultaneous approximation. 90h:30059
- Duba, E. H. Rational and polynomial approximations from ultraspherical series for linear differential equations. 90h:65027
- Freund, M. The degree of rational approximation to meromorphic functions. (German and Russian summaries) 90a:30105
- Gamelin, T. W. (with Khavinson, Dmitry) The isoperimetric inequality and rational approximation. 90d:30108
- Gohberg, I. *see* Ball, Joseph A.; et al., 90m:47002
- González-Concepción, C. Convergence of some matrix Padé-type approximants to the exponential. 90h:30060
- Grothmann, R. (with Saff, E. B.) On the behavior of zeros and poles of best uniform polynomial and rational approximants. 90h:30044
- Illán González, Jesús On the characterization of convergence in a fraction space and numerical integration in H^p -spaces. (Spanish. English summary) 90h:65025
- Khavinson, Dmitry F. and M. Riesz theorem, analytic balayage, and problems in rational approximation. 90h:30039
- *see also* Gamelin, T. W., 90d:30108
- Kovacheva, R. K. On the behaviour of Chebyshev rational functions with a fixed number of poles. 90d:30109
- Kowalski, Marek A. On approximation of band-limited signals. 90h:94006
- Lacoux, Alain Interpolation de Lagrange. [Lagrange interpolation] 90m:41008
- Lau, T. C. *see* Lawson, John Douglas, 90c:41037
- Lawson, John Douglas (with Lau, T. C.) Order constrained Chebyshev rational approximation. 90c:41037
- Latterodt, C. H. Rational approximants of hypergeometric series in C^N . 90h:32054
- Maguans, Alphonse P. On the use of the Carathéodory-Fejér method for investigating " $\frac{1}{2}$ " and similar constants. 90h:65035
- Nersisyan, Ashot A. Alice Roth's fusion lemma. 90c:30063
- Parusnikov, V. I. The Jacobi-Perron algorithm and simultaneous rational approximations. (Russian) (see 90d:00046)
- Renaut, R. A. Semidiscretisations of $u_H = u_{xx}$ and rational approximations to $(\ln z)^2$. 90h:65149
- Full discretisations of $u_H = u_{xx}$ and rational approximations to $\cosh \mu z$. 90h:65150
- Rodman, Leiba *see* Ball, Joseph A.; et al., 90m:47002
- Saff, E. B. *see* Grothmann, R., 90h:30044
- Starovrolov, A. P. Rational approximation of functions that are differentiable in the Riemann-Liouville sense. (Russian) (see 90d:00046)

41A21 Padé approximation

- Baker, George A., Jr. Integral approximants for functions of higher monodromic dimension. 90h:41020
- Bandyopadhyay, B. (with Rao, A. Kailasa; Singh, H.) On Padé approximation for multivariable systems. (Not in MR)
- Basu, Sankar Padé approximants to matrix Stieltjes series: convergence and related properties. 90h:41031
- de Bruijn, M. G. A two-point Padé table and a Padé-2-table. 90h:41012
- Simultaneous rational approximation to some q -hypergeometric functions. 90h:41027
- Cabay, Stan *see* Labahn, George, 90h:41023
- Casasús, L. (with González-Vera, P.) Orthogonal polynomials and geometric convergence of Padé-type approximants. 90h:41013
- Chaffy-Camus, Claudine An application of REDUCE to the approximation of $f(x, y)$. 90m:41027
- Draux, André Convergence of Padé approximants in a noncommutative algebra. 90h:41014
- Gohah, A. P. Proofs of Padé and van Rossum theorems using generalized moment representations. (Chinese. English summary) 90h:41027
- González-Vera, P. *see* Casasús, L., 90h:41013
- Huang, Yu Du On the existence of the Chebyshev-Padé approximation and the structure of the CP table. (Chinese. English summary) 90h:41027
- Karan, Bhuvan M. (with Srivastava, Mahesh C.) A new multidimensional rational approximant. 90h:41015
- Kida, Sôshirô (with Ogawa, Shiro) Determinantal expressions of multivariate Padé-type approximants. 90c:41032
- Kovacheva, R. K. Generalized Padé approximants of Kakehashi's type and meromorphic continuation of functions. 90h:41028
- Labahn, George (with Cabay, Stan) Matrix Padé fractions and their computation. 90h:41023

- López Lagomasino, Guillermo (with Rakhmanov, E. A.) Rational approximations, orthogonal polynomials and equilibrium distributions. 90h:41028
- Lablinsky, D. S. On uniform convergence of rational, Newton-Padé interpolants of type (n, n) with free poles as $n \rightarrow \infty$. 90h:41029
- Ogawa, Shiro *see* Kida, Sôshirô, 90c:41032
- Parusnikov, V. I. The Jacobi-Perron algorithm and simultaneous rational approximations. (Russian) (see 90d:00046)
- Rakhmanov, E. A. *see* López Lagomasino, Guillermo, 90h:41028
- Rao, A. Kailasa *see* Bandyopadhyay, B.; et al., (Not in MR)
- Singh, H. *see* Bandyopadhyay, B.; et al., (Not in MR)
- Srivastava, Mahesh C. *see* Karan, Bhuvan M., 90h:41015

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- Brezinski, Claude Error estimate in Padé approximation. 90h:41048
- Procedures for estimating the error in Padé approximation. 90h:65034
- Chaffy-Camus, Claudine (Padé), of (Padé), approximants of $F(x, y)$. 90h:65007
- Chudnovsky, David V. (with Chudnovsky, Gregory V.) Use of computer algebra for Diophantine and differential equations. 90h:11096
- Chudnovsky, Gregory V. *see* Chudnovsky, David V., 90h:11096
- Cuyt, Annie (with Verdonk, Brigitte) Evaluation of branched continued fractions using block-tridiagonal linear systems. 90h:65039
- Gilewicz, Jacek (with Truong-Van, Benoit) Froissart doublets in the Padé approximation and noise. 90h:30006
- From a numerical technique to a method in the best Padé approximation. 90h:65034
- Gohah, A. P. Convergence of denominators of simultaneous Padé approximants for a set of degenerate hypergeometric functions. 90a:30106
- Generalized moment representations of basic hypergeometric series. 90h:33008
- A system of bi-orthogonal polynomials and its applications. 90m:33010
- Hovstad, R. M. The classical irrationality problem for T -fractions. 90m:40001
- Irwin, M. C. Geometry of continued fractions. 90h:11063
- Jones, William B. (with Thron, W. J.) Continued fractions in numerical analysis. 90h:65021
- (with Njåstad, Olav; Thron, W. J.) Moment theory, orthogonal polynomials, quadrature, and continued fractions associated with the unit circle. 90h:42027
- Knopfmacher, Arnold (with Knopfmacher, John) Inverse polynomial expansions of Laurent series. 90c:41028
- Knopfmacher, John *see* Knopfmacher, Arnold, 90c:41028
- Kovacheva, R. K. Diagonal Padé approximants, rational Chebyshev approximants and poles of functions. 90h:30046
- Lin, Jing On the convergence of the Padé table. 90h:30076
- Martínez Finkelshtein, Andrei On the m th row of Newton type (α, β) -Padé tables and singular points. 90h:30047
- Njåstad, Olav Multipoint Padé approximation and orthogonal rational functions. 90h:30005
- *see also* Jones, William B.; et al., 90h:42027
- Pindor, M. An application of operator Padé approximants to multiregion processes. 90h:81201
- Renaut, R. A. Semidiscretisations of $u_H = u_{xx}$ and rational approximations to $(\ln z)^2$. 90h:65149
- Full discretisations of $u_H = u_{xx}$ and rational approximations to $\cosh \mu z$. 90h:65150
- Stahl, Herbert Asymptotics of Hermite-Padé polynomials and related convergence results—a summary of results. 90h:30088
- On the convergence of generalized Padé approximants. 90h:30063
- Thron, W. J. *see* Jones, William B.; et al., 90h:42027 and 90h:65021
- Truong-Van, Benoit *see* Gilewicz, Jacek, 90h:30006
- Verdonk, Brigitte *see* Cuyt, Annie, 90h:65039

41A25 Rate of convergence, degree of approximation

- Agrawal, Purshottam Narain *see* Gupta, Vijay, 90m:41028
- Anastassiou, George A. The rate of weak convergence of convex type positive finite measures. 90h:41015
- Bojankić, R. (with Cheng, Fu Hua) Rate of convergence of Bernstein polynomials for functions with derivatives of bounded variation. 90h:41021
- Boyancov, Boris D. (with Huang, Da Ren) Comparison of recovery schemes based on end-point values. 90h:41029
- Cao, Jia Ding (with Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. III. Estimates for some numerical approximation schemes. 90h:41024
- Cheng, Fu Hua *see* Bojankić, R., 90h:41021
- Dickmeis, W. (with Mevissen, H.; Nessel, R. J.; van Wickeren, E.) Sequential convergence and approximation in the space of Riemann integrable functions. 90h:41017
- Gonska, Heinz H. *see* Cao, Jia Ding, 90h:41024
- Gupta, Vijay (with Agrawal, Purshottam Narain) Linear combinations of Phillips operators. 90m:41028
- Huang, Da Ren *see* Boyancov, Boris D., 90h:41029
- Kassas, H. S. A note on uniform approximation by linear combinations of modified Bernstein polynomials. 90h:41032
- Liu, Rui Zhen On the approximation of differentiable functions by Vallée-Poussin sums of T-F series. 90m:41029
- Mevissen, H. (with Nessel, R. J.; van Wickeren, E.) A quantitative Bohman-Korovkin theorem and its sharpness for Riemann integrable functions. (German and Russian summaries) 90h:41016
- *see also* Dickmeis, W.; et al., 90h:41017
- Nessel, R. J. *see* Mevissen, H.; et al., 90h:41016 and Dickmeis, W.; et al., 90h:41017
- Nishishiraho, Toshihiko The order of approximation by positive linear operators. 90h:41033
- Saff, E. B. (with Totik, V.) Polynomial approximation of piecewise analytic functions. 90h:41028
- Sun, Xie Hua On the simultaneous approximation of functions and their derivatives by the Szász-Mirakyan operator. 90h:41010

- Tian, Ji Shan (with Wang, Zi Yu) On the approximation of the continuous functions by some Hermite-Fejér interpolation polynomials. 90c:41029
- Totik, V. see Saff, E. B., 90c:41028
- Wang, Zi Yu see Tian, Ji Shan, 90c:41029
- van Wickeren, E. see Mevissen, H.; et al., 90c:41016 and Dickmeis, W.; et al., 90c:41017
- Zhang, Yan² Convergence and approximation properties of generalized Abel means on real $H^p(\mathbb{R}^n)$ spaces ($0 < p \leq 1$). (Chinese. English summary) 90a:41016
- Items with secondary classifications in 41A25**
- Almuloev, N. Best approximation of certain classes of differentiable functions in L_2 . (Russian) (see 90m:90015)
- Amiar, Rachida see Vasil'ev, R. K., 90d:41040
- Badalyan, G. V. (with Edigaryan, V. M.) Generalization of a problem of Mendelev. (Russian. English and Armenian summaries) 90d:41008
- Balázs, Katherine (with Kilgore, Theodore) On the simultaneous approximation of derivatives by Lagrange and Hermite interpolation. 90m:41030
- Beaton, R. K. (with Wolkowicz, H.) Post-processing piecewise cubics for monotonicity. 90c:5019
- Bruij, I. N. (with Jód, István) On a theorem of L. Leindler. 90c:42011
- Cavaretta, A. S., Jr. (with Dikshit, H. P.; Sharma, Ambikeshwar) Convergence of certain polynomial interpolants to a function defined on the unit circle. 90c:30107
- Chandra, Prem Functions in L_p -space and their approximations. (Serbo-Croatian summary) 90c:42002
- Chen, Wen Zhong (with Guo, Shun Sheng) The degree of pointwise approximation of the Meyer-König-Zeller operator for functions of bounded variation. (Chinese) 90c:41009
- Cismagiu, Cristina S. A linear positive operator associated with the Pearson's χ^2 distribution. (Romanian summary) 90c:41026
- Dikshit, H. P. see Cavaretta, A. S., Jr.; et al., 90c:30107
- Ditzian, Z. (with Ivanov, Kamen G.) Bernstein-type operators and their derivatives. 90c:41042
- Best polynomial approximation and Bernstein polynomial approximation on a simplex. 90c:41007
- Dumoho, David L. (with Johnstone, Iain) Projection-based approximation and a duality with kernel methods. 90c:62131
- Edigaryan, V. M. see Badalyan, G. V., 90d:41008
- Fawzy, Th. (0, 2, 4) lacunary interpolation with G -splines. 90c:41015a
- Lacunary interpolation by splines (0, 2, 3) case. 90c:41015b
- Freund, M. The degree of rational approximation to meromorphic functions. (German and Russian summaries) 90c:30105
- Gaimanzarov, G. Properties of functions in the spaces $L_p(-\infty, \infty)$, $0 < p < 1$, with given best approximations. (Russian. Tajiki summary) 90c:46051
- Gonska, Heinz H. Degree of approximation by lacunary interpolators: $(0, \dots, R-2, R)$ interpolation. 90c:41006
- Guo, Shun Sheng On the rate of convergence of the integrated Meyer-König and Zeller operators for functions of bounded variation. 90c:41031
- see also Chen, Wen Zhong, 90c:41009
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- On simultaneous approximation by optimal algebraic polynomials. 90c:41033
- Hsiao, Sheng Yen (with Yeh, Cheh Chih) Rates for approximation of unbounded functions by positive linear operators. 90c:41028
- Illán González, Jesús On the rational approximation of H^p functions in the $L_p(\mu)$ metric. 90c:41022
- Ivanov, Kamen G. see Ditzian, Z., 90c:41042 and Khristov, Vladimir Kh., 90c:41027
- Johnstone, Iain see Dumoho, David L., 90c:62131
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- Kilgore, Theodore see Balázs, Katherine, 90m:41030
- Kirschfink, H. The generalized Trotter operator and weak convergence of dependent random variables in different probability metrics. 90c:60023
- Knopfmacher, Arnold (with Knopfmacher, John) Inverse polynomial expansions of Laurent series. 90c:41028
- Knopfmacher, John see Knopfmacher, Arnold, 90c:41028
- Leski, Włodzisław On the degrees of strong approximation by some trigonometric polynomials. 90d:42006
- Leviatan, D. (with Levin, A. L.; Saff, E. B.) On approximation in the L^p -norm by reciprocals of polynomials. 90c:41017
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- Ma, Yong Pei see Yu, Xiang Ming, 90d:41014
- Mazhar, S. M. On the degree of approximation by modified Szász operator. 90m:41035
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- Müller, Manfred Wolfgang Approximation by Cheney-Sharma-Kantorovich polynomials in the L_p -metric. 90c:41034
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- Neval, Paul (with Vértési, Péter) Convergence of Hermite-Fejér interpolation at zeros of generalized Jacobi polynomials. 90c:41009
- Nishikira, Toshiko Quantitative estimates for approximation by positive linear operators. 90c:41029
- Ogawa, Shiro see Zhang, Guofeng, 90c:41011
- Peyerimhoff, A. (with Stickel, E.; Wirsing, E.) On the rate of convergence for two-term recursions. (German summary) 90c:65033
- Prestin, Jürgen Trigonometric approximation by Euler means. 90c:42007
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- Quak, Ewald L_p -error estimates for positive linear operators using the second-order τ -modulus. (Russian summary) 90c:41030
- Multivariate L_p -error estimates for positive linear operators via the first-order τ -modulus. 90c:41031
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- Shen, Xie Chang (with Xing, Fu Chong) The problem of best approximation by polynomials in the spaces H_p^q ($0 < p < 1$, $q > 1$). (Chinese. English summary) 90c:30111
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- Sukhotin, Yu. N. The dependence of estimates of a multidimensional piecewise-polynomial approximation on the geometric characteristics of a triangulation. (Russian) 90c:41009
- Sun, Xie Hua Lagrange interpolation of functions of generalized bounded variation. 90c:41003
- Szabados, J. (with Vértési, Péter) On simultaneous optimization of norms of derivatives of Lagrange interpolation polynomials. 90c:41012
- Tachev, Gancho T. Direct estimation for approximation by Bernstein polynomials in $L_p[0, 1]$ ($0 < p < 1$). 90c:41019
- Takev, Milko D. A theorem of Whitney type in \mathbb{R}^n . 90c:41011
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- Umar, S. (with Razi, Q.) Approximation by modified Szász operators. 90c:41039
- Utreras, Florencio I. Boundary effects on convergence rates for Tikhonov regularization. 90c:65029
- Vasil'ev, R. K. (with Amiar, Rachida) Sur les théorèmes quantitatifs du type Korovkin. (English summary) [On quantitative theorem of Korovkin type] 90c:41040
- Vértési, Péter see Neval, Paul, 90c:41009 and Szabados, J., 90c:41012
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- Zhou, Song Ping A problem on simultaneous approximation and a conjecture of Hasson. 90c:41008
- On the accurate order of approximation of some classes of functions. 90c:41014
- Znatrakov, N. L. Convergence of multiple interpolational splines and their derivatives. (Russian) 90c:41010

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- Heilmann, M. Direct and converse results for operators of Baskakov-Durrmeyer type. 90c:41025
- Meñik, Yu. I. Inverse theorems for approximating functions that are regular in convex polygons by exponential polynomials in an integral metric. 90c:41034
- van Wickeren, E. Direct and inverse theorems for Bernstein polynomials in the space of Riemann integrable functions. 90d:41030
- Items with secondary classifications in 41A27**
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- (with Ivanov, Kamen G.) Bernstein-type operators and their derivatives. 90c:41042
- Dryanov, D. P. (with Rahman, Q. I.; Schmeisser, G.) Equivalence theorems for quadrature on the real line. 90m:65053
- Ivanov, Kamen G. see Ditzian, Z., 90c:41042
- Rahman, Q. I. see Dryanov, D. P.; et al., 90m:65053
- Schmeisser, G. see Dryanov, D. P.; et al., 90m:65053
- Stepanets, A. I. (with Zhukina, E. I.) Inverse theorems for the approximation of (ψ, β) -differentiable functions. 90c:42007
- Totik, V. see Ditzian, Z., 90c:41013
- Zhukina, E. I. see Stepanets, A. I., 90c:42007

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- Balázs, Katherine (with Kilgore, Theodore) On the simultaneous approximation of derivatives by Lagrange and Hermite interpolation. 90m:41030
- Heilmann, M. On simultaneous approximation by optimal algebraic polynomials. 90c:41033
- Kannan, V. (with Ravichandran, S.) Simultaneous best approximation by three polynomials. 90c:41034
- Kilgore, Theodore see Balázs, Katherine, 90m:41030
- Li, Chong Characteristics of nonlinear simultaneous Chebyshev approximation. (Chinese. English summary) 90a:41017
- Narayanawamy, Indira Simultaneous approximation and interpolation with norm-preservation by Tchebysheffian splines. 90c:41035

- Ravichandran, S. *see* Kannan, V., 90j:41034
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 — Bounded measurable simultaneous monotone approximation. 90k:41026
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- de Bruijn, M. G. Simultaneous rational approximation to some q -hypergeometric functions. 90i:41027
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 Pevac, Lazar Chebyshev centres in normed spaces: a geometrical approach. 90k:41036
 Stepanets, A. I. Simultaneous approximation of functions and their (φ, β) -derivatives by Fourier sums. 90k:42011
 Zhou, Song Ping A problem on simultaneous approximation and a conjecture of Hasson. 90a:41008

41A29 Approximation with constraints

- Derbeneva, B. P. Finiteness of the linearization method for a linear problem of approximation in the mean with constraints. (Russian) 90f:41018
 Fang, Gen Sun PF density, Chakhk'iev's condition and some related extremal problems. 90d:41031
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 Khristov, Vladimir Kh. (with Ivanov, Kamen G.) Operators for one-sided approximation of functions. 90k:41027
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 Lan, T. C. *see* Lawson, John Douglas, 90c:41037
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 Lenz, Burkhard On one-sided approximation operators induced by special convolution kernels. 90k:41028
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 Tschev, Tsvetomir J. An L_2 constrained best approximation problem. (Not in MR)
 Ubhaya, Vasant A. L_p approximation by quasi-convex and convex functions. 90h:41022
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 — On comonotone approximation and coconvex approximation of differentiable functions. (Chinese. English summary) 90i:41030
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- Chandrasekaran, K. R. Best coapproximation in normed linear spaces by elements of one- and two-dimensional subspaces. 90m:41051
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 Ferris, M. C. (with Philippot, A. B.) An interior point algorithm for semi-infinite linear programming. 90c:90077
 Gal, S. G. Approximation of continuous functions by monotone sequences of polynomials with restricted coefficients. 90d:41010
 — Constructive approximation by monotonous polynomial sequences in $Lip_M \alpha$, with $\alpha \in (0, 1]$. 90k:41010
 Jones, Lee Kenneth Approximation-theoretic derivation of logarithmic entropy principles for inverse problems and unique extension of the maximum entropy method to incorporate prior knowledge. 90d:94004
 Kouscher, Ognjan Extremal problems for the distributed moment problem. 90f:31007
 Labitsky, D. S. Strong asymptotics for extremal errors and polynomials associated with Erdős-type weights. 90c:41014
 Mitchell, Charles A. Monosplines and moment preserving spline approximation. 90j:41024
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 Pinkus, Allan M. (with Strauss, Hans) One-sided L^1 -approximation to differentiable functions. 90a:41023
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 Schmidt, Darrell Another case of nonexistence in rational Chebyshev approximation with interpolatory constraints. 90m:41026
 Sonnenend, G. Necessary and sufficient conditions for interpolation with functions having monotone r th derivatives. (Russian summary) 90h:41008
 Strauss, Hans *see* Pinkus, Allan M., 90a:41023 and 90d:41052
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 Swetits, J. J. (with Weinstein, S. E.) Construction of a best monotone approximation in L_p for $1 < p < \infty$. 90m:41045
 — (with Weinstein, S. E.; Xu, Yue Sheng) On the characterization and computation of best monotone approximation in $L_p[0, 1]$ for $1 \leq p < \infty$. 90j:41047
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- Artstein, Zvi Piecewise linear approximations of set-valued maps. 90g:41025
 Bahaev, M.-B. A. An estimate for the rate that the best approximation by piecewise-quasipolynomial functions tends to zero. (Russian) (see 90i:00006)

- Badea, C. (with Badea, L.; Cottin, C.) A Korovkin-type theorem for generalizations of Boolean sum operators and approximation by trigonometric pseudopolynomials. 90f:41019
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 Berdyshev, V. I. On approximation by the Lipschitz class and on best trajectories. (Russian) (see 90i:00006)
 Bilalov, B. T. The basis property of some systems of functions. (Russian) 90b:41030
 Cottin, C. *see* Badea, C.; et al., 90f:41019
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 Cybenko, G. Approximation by superpositions of a sigmoidal function. 90m:41033
 Darst, R. B. (with Fu, Shu Sheng) Approximation of integrable, approximately continuous functions on $(0, 1)^n$ by nondecreasing functions. 90f:41020
 Daugavet, V. A. (with Sazonova, L. V.) Some problems in multidimensional approximation. (Russian) 90d:41032
 Dinh, Dung Linear methods for the smoothing of functions on a torus. (Russian) (see 90m:00040)
 Dunham, Charles B. Chebyshev approximation by powered products. 90b:41031
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 Ivanov, V. I. Approximation in L_p by piecewise constant functions. 90b:41032
 Jain, Suresh Chandra (with Pathak, Ashutosh) Approximation of a function by its Jacobi expansion. (Hindi. English summary) 90j:41038
 Jód, István On the order of approximation by Fejér means of Hermite-Fourier and Laguerre-Fourier series. 90d:41034
 Kogan, D. A. Kernels that are equivalent in the sense of approximation to the Riesz kernel. (Russian) 90f:41021
 Kowalski, Marek A. (with Sielski, Waldemar) Approximation of smooth periodic functions in several variables. 90g:41026
 Lizorkin, P. I. (with Nikolskii, S. M.) Approximation by spherical polynomials in L_p (the case of symmetric differences). (Russian) 90g:41027
 Loginev, A. S. An estimate, in terms of the modulus of smoothness, for the approximation of continuous functions by piecewise linear functions. (Russian) (see 90d:00020)
 Maimeskul, V. V. On the approximation of continuous functions by traces of generalized solutions of the Beltrami equation. (Russian) (see 90d:00046)
 Mastroianni, Giuseppe *see* Criscuolo, Giuliana, (90a:41001)
 Mel'nik, Ya. I. Approximation of functions that are regular in convex polygons by exponential polynomials. 90d:41035
 Nagornov, V. S. Fourier approximation of a curve with an adaptation of a parametric representation: an extremal property of approximations that preserve the direction of the tangent. (Russian) 90a:41018
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 Smirnov, G. A. Approximation of continuous matrix functions. (Russian) (see 90m:00015)
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 Tsalyuk, V. Z. Lipschitz approximation of a multivalued function that satisfies the Carathéodory condition. (Russian) 90g:41028
 Ubhaya, Vasant A. Uniform approximation by quasi-convex and convex functions. 90g:41029
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 Zwick, D. Some aspects of best n -convex approximation. 90b:41033

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- Badalyan, G. V. (with Edigaryan, V. M.) Generalization of a problem of Mendelev. (Russian. English and Armenian summaries) 90d:41008
 Bojanid, R. An estimate for the rate of convergence of a general class of orthogonal polynomial expansions of functions of bounded variation. 90a:42018
 Cornea, Octav Weak discontinuities and discrete approximations. 90e:54020
 Cunningham, Michael John *see* Oakley, John Peter; et al., 90k:42050
 Doktor, Pavel Smooth functions and zero traces. 90j:46034
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 Galeev, É. M. Approximation of periodic functions of one and several variables. (see 90i:41001)
 Garkavi, A. L. On the Haar condition for systems of vector-valued functions. 90g:41006
 Goodman, T. N. T. (with Unsworth, K.) Shape preserving interpolation by curvature continuous parametric curves. 90e:65010
 Guo, Shun Sheng (with Xu, Li Zhi) Characterization of the class $Lip^\alpha \alpha$ of periodic functions by means of the Rappoport operator. 90d:42003
 Heinig, Georg (with Hoppe, Wolfram; Rost, Karla) Structured matrices in interpolation and approximation problems. (German summary) 90g:41002
 Hoppe, Wolfram *see* Heinig, Georg; et al., 90g:41002
 Huotari, Robert (with Legg, David; Townsend, Douglas) Existence of best n -convex approximants in L_1 . 90m:41031

- Khabibulla, B. N.** Asymptotic approximation of subharmonic functions by subharmonic functions with special properties. (Russian) **90b:31003**
- Khadzhaliski, Vanya** On the best L_p -approximation on the real line by entire functions of exponential type. (Bulgarian. English and Russian summaries) **90b:30046**
- Legg, David** (with Townsend, Douglas) The Pólya algorithm for convex approximation. **90j:41062**
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- Little, Graham** see **Oakley, John Peter**; et al., **90k:42050**
- Melardus, Günter** On the Gauss transform of polynomial spline spaces. **90m:41023**
- Mumford, David** (with Shah, Jayant) Optimal approximations by piecewise smooth functions and associated variational problems. **90g:49033**
- Neval, Paul** Characterization of measures associated with orthogonal polynomials on the unit circle. **90m:42034**
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- Oakley, John Peter** (with Cunningham, Michael John; Little, Graham) A Fourier-domain formula for the least-squares projection of a function onto a repetitive basis in N -dimensional space. **90k:42050**
- O'Farrell, A. G.** (with Prekenis, K. J.) Uniform approximation by polynomials in two functions. **90k:30077**
- Oganesyan, S. M.** An inverse problem of potential theory in the space $L_p(S)$ and approximation of elements in $W_2^r(S)$ by differentiable compactly supported functions. **90c:31010**
- Prekenis, K. J.** see **O'Farrell, A. G.**, **90k:30077**
- Raitala, R. A.** Fourier-Chebyshev series of a class of functions. **90b:42006**
- Rost, Karl** see **Heinig, Georg**; et al., **90g:41002**
- Sahab, Salem M. A.** On the monotone simultaneous approximation on $[0, 1]$. **90c:41036**
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- Sun, Xie Hua** On the simultaneous approximation of functions and their derivatives by the Szász-Mirakyan operator. **90c:41010**
- Townsend, Douglas** see **Legg, David**, **90j:41062** and **Huotari, Robert**; et al., **90m:41031**
- Unsworth, K.** see **Goodman, T. N. T.**, **90c:65010**
- Vakarchuk, S. B.** Reconstruction of linear functionals on classes of differentiable functions of two variables from some generalized information. (Russian) **90b:65032**
- Withers, Wm. Douglas** Newton's method for fractal approximation. **90a:65289**
- Xu, Li Zhi** see **Gao, Shun Sheng**, **90d:42003**
- Ziemer, William P.** Uniform differentiability of Sobolev functions. **90f:46054**

41A35 Approximation by operators (in particular, by integral operators)

- Abdulofizov, Sh.** (with Videnskii, V. S.) Approximation by operators of Grof type. (Russian. Tajiki summary) **90k:41030**
- Agrawal, Purshottam Narain** see **Kasana, H. S.**; et al., **90f:41025**
- Amiar, Rachida** see **Vasilev, R. K.**, **90d:41040**
- Badea, C.** (with Badea, I.; Cottin, C.; Gonska, Heinz H.) Notes on degree of approximation of B -continuous and B -differentiable functions. **90c:41041**
- Badea, I.** see **Badea, C.**; et al., **90c:41041**
- Baskakov, V. A.** Approximation of different classes of functions by the same sequence of linear operators. (Russian) (see **90i:00006**)
- Chen, Wen Zhong** Generalized Lupas-Baskakov integral operators. (Chinese. English summary) **90d:41037**
- Choi, C. K.** (with He, Tian Xiao; Xu, Li Zhi) On a general class of multivariate linear smoothing operators. **90f:41022**
- Colzani, Leonardo** Is the approximation of a function by its Fejér means monotone? **90b:41034**
- Cottin, C.** see **Badea, C.**; et al., **90c:41041**
- Della Vecchia, Biancamaria** On the preservation of Lipschitz constants for some linear operators. (Italian summary) **90c:41031**
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- Gonska, Heinz H.** see **Badea, C.**; et al., **90c:41041**
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- Kasana, H. S.** (with Prasad, Govind; Agrawal, Purshottam Narain; Sahai, Ashok) Modified Szász operators. **90f:41025**
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- Prasad, Govind** see **Kasana, H. S.**; et al., **90f:41025**
- Raja, I.** On some test systems in approximation by linear operators. **90b:41033**
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- Sendor, Bl.** Approximation with a minimal derivative. (Russian) **90d:41039**
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- Simonov, B. V.** Approximation of differentiable functions by certain linear operators. (Russian) (see **90d:00046**)
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- Vasilev, R. K.** (with Amiar, Rachida) Sur les théorèmes quantitatifs du type Korovkin. (English summary) [On quantitative theorem of Korovkin type] **90d:41040**
- Videnskii, V. S.** see **Abdulofizov, Sh.**, **90b:41030**
- Vogt, L.** Approximation by linear combinations of positive convolution integrals. **90c:41043**
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- Chen, Wen Zhong** (with Gao, Shun Sheng) The degree of pointwise approximation of the Meyer-König-Zeller operator for functions of bounded variation. (Chinese) **90k:41009**
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- Gao, Shun Sheng** see **Chen, Wen Zhong**, **90k:41009**
- He, Ze Lin** Approximation by a class of operators and best approximation in $L^p(G)$ with $1 < p < \infty$ and $G = \mathbb{R}, \mathbb{T}$, or \mathbb{Z} . (Chinese) **90g:43008**
- Heilmann, M.** Commutativity of operators from Baskakov-Durrmeyer type. **90g:41032**
— Direct and converse results for operators of Baskakov-Durrmeyer type. **90k:41025**
- Kasana, H. S.** A note on uniform approximation by linear combinations of modified Bernstein polynomials. **90j:41032**
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- Liu, Rui Zhen** On the approximation of differentiable functions by Vallée-Poussin sums of T-F series. **90m:41029**
- Liu, Yong Ping** The approximation properties of a class of trigonometric polynomial interpolation operators. (Chinese. English summary) **90b:42003**
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- Sahab, Salem M. A.** (with Khan, Mohd. Saeed; Sessa, Salvatore) A result in best approximation theory. **90a:41032**
- Sessa, Salvatore** see **Sahab, Salem M. A.**; et al., **90a:41032**
- Sun, Xie Hua** On the simultaneous approximation of functions and their derivatives by the Szász-Mirakyan operator. **90c:41010**
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- Zhao, Jing Hui** L^p saturation for Stancu-Kantorovich operators. (Chinese. English summary) **90k:41036**

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- Burav, V. N.** (with Koryanov, A. G.) Approximation of functions by nonlinear operators that are subordinate to sublinear monotone majorants. (Russian) **90k:41033**
- Campiti, Michele** A Korovkin-type theorem in the space of Riemann integrable functions. **90g:41030**
- Cao, Jia Ding** (with Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. **90d:41041a**
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- Frenjia, M.** On the asymptotic aspect of the approximation of functions by means of the D. D. Stancu operators. **90f:41027**
- Gasharov, N. G.** Estimates for approximation by linear positive operators that preserve linear functions. (Russian) (see **90d:00009**)
- Gonska, Heinz H.** see **Cao, Jia Ding**, **90d:41041a** and **90d:41041b**
- Gao, Shun Sheng** Degree of approximation to functions of bounded variation by certain operators. **90d:41042**
— On the rate of convergence of the integrated Meyer-König and Zeller operators for functions of bounded variation. **90g:41031**
- Heilmann, M.** Commutativity of operators from Baskakov-Durrmeyer type. **90g:41032**
- Hsiao, Sheng Yen** (with Yeh, Chih Chih) Rates for approximation of unbounded functions by positive linear operators. **90f:41028**
- Keimel, Klaus** (with Roth, Walter) A Korovkin type approximation theorem for set-valued functions. **90g:41033**
- Khan, Mohammad Kazim** On the rate of convergence of Bernstein power series for functions of bounded variation. **90d:41043**
- Koryanov, A. G.** see **Burav, V. N.**, **90k:41033**
- Lupaş, Alexandru** see **Lupaş, Luciana**, **90a:41020**
- Lupaş, Luciana** (with Lupaş, Alexandru) Polynomials of binomial type and approximation operators. (Romanian summary) **90a:41020**
- Mazhar, S. M.** On the degree of approximation by modified Szász operator. **90m:41035**
- Mencher, A. E.** Linear positive operators of Mirakyan type. (Russian) **90m:41036**

- Moldovan, Grigor An automorphism property of a class of polynomial-type positive convolutive operators. (Romanian summary) 90c:41046
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- Păltănea, Radu Sur une classe d'opérateurs positifs. [On a class of positive operators] 90c:41047
- Pendina, T. P. On the saturation of algebraic linear positive operators associated with trigonometric kernels. (Russian) (see 90m:00015)
- Quak, Ewald L_p -error estimates for positive linear operators using the second-order τ -modulus. (Russian summary) 90c:41030
- Multivariate L_p -error estimates for positive linear operators via the first-order τ -modulus. 90c:41031
- Raja, I. On the monotonicity of sequences of Bernstein-Schnabl operators. (Not in MR)
- Razi, Q. Approximation of functions by integral Meyer-König and Zeller operators. 90c:41048
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- Tomova, Saejana Approximation by Szász-Mirakjan operators in $L_p[0, \infty)$. 90c:41038
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- Wood, B. Uniform approximation with positive linear operators generated by binomial expansions. 90c:41044
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- Baskakov, V. A. Comparison of orders of approximation of classes of functions of several variables. (Russian) (see 90m:00015)
- Blaga, Petru On a bivariate integral spline operator. (Romanian summary) 90c:41013
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- Gonska, Heinz H. see Cao, Jia Ding, 90c:41024
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- Kassana, H. S. A note on uniform approximation by linear combinations of modified Bernstein polynomials. 90c:41032
- (Kuznetsov, Yuri Alekseevich) see Sendov, Bl., 90c:41001
- (Osolkov, K. I.) see Sendov, Bl., 90c:41001
- Păltănea, Radu Une classe générale d'opérateurs polynomiaux. [A general class of polynomial operators] 90c:41011
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- Raja, I. Norm-one projections on some function spaces. 90c:41072
- Sendov, Bl. (with Popov, Vasil Atanasov) ★ Усредненные модули гладкости. (Russian) [Averaged moduli of smoothness] 90c:41001
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- Gavriluk, V. T. Saturation classes of singular integrals in the space L_1 . (Russian) 90c:41040
- Müller, Manfred Wolfgang Saturation of a new method of Kantorovich type Meyer-König and Zeller operators. 90c:41035
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- Fang, Yueshan A saturation property concerning a general probabilistic representation of operator semigroups. 90c:47072
- Gavriluk, V. T. Saturation classes for linear methods of summation of Fourier series. 90c:42014
- Jiang, Gong Jian The order of approximation of rational interpolation operators with Legendre nodes. (Chinese. English summary) 90c:41005
- Jiang, Xun The saturation problem for a class of spherical linear means of multiple Fourier series. (Chinese) 90c:42018
- Jóó, István On some problems of M. Horváth (saturation theorems for Walsh-Fourier expansions). 90c:42041
- Lenze, Burkhard On one-sided spline approximation operators. 90c:41002
- Lü, Ping Iterates of Bernstein polynomials over triangles. 90c:41003
- Liu, Yong Ping The approximation properties of a class of trigonometric polynomial interpolation operators. (Chinese. English summary) 90c:42003
- Nishishiraho, Toshihiko Saturation of iterations of bounded linear operators. 90j:41064
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- Prestin, Jürgen Trigonometric approximation by Euler means. 90c:42007
- Selvaraj, C. R. see Cavaretta, A. S., Jr., 90c:42004
- Timmermanns, C. A. Approximation, saturation, and semigroups of operators in Banach spaces. 90c:41047

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- Angelos, James (with Henry, Myron; Kaufman, Edwin, Jr.; Lenker, Terry) Bounds for extended local Lipschitz constants. 90c:41025
- Fang, Gen Sun The exact constant in a Jackson-type inequality in L_1 . (Chinese. English summary) 90j:41040
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- Kaufman, Edwin, Jr. see Angelos, James; et al., 90c:41025
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- Yussef, Kh. On best approximations of functions and on values of widths of classes of functions in L_2 . (Russian) 90c:41045

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- Chen, Welyu (with Ditzian, Z.) Mixed and directional derivatives. 90c:26023
- Ditzian, Z. see Chen, Welyu, 90c:26023
- Erdélyi, T. Markov-type estimates for certain classes of constrained polynomials. 90c:41009
- Fang, Gen Sun On exact constant in Jackson type inequality. 90c:41025
- Khan, Mohammad Kazim (with Peters, Michael A.) Lipschitz constants for some approximation operators of a Lipschitz continuous function. 90c:41031
- Lia, Pei-Kee Strongly unique best approximation in uniformly convex Banach spaces. 90c:41045
- Miroshnichenko, V. L. Exact error bounds for the periodic cubic and spline interpolation on the uniform mesh. 90c:41021
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- Păltănea, Radu Improved constant in approximation by Bernstein polynomials. 90c:41014
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- Stepanets, A. I. On the Lebesgue inequality on classes of (ν, β) -differentiable functions. 90c:42003
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- Filippovskii, V. G. Linear methods for the approximation of functions of the classes $C_p^r H_n$. (Russian) 90c:41051

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- Dunham, Charles B. Linearization of best approximation. 90c:41021

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- Almuloev, N. Widths of classes of analytic functions in a unit disk. (Russian) (see 90c:00005)
- Belinskii, É. S. Approximation by a "floating" system of exponentials, and estimates for ϵ -entropy. (Russian) (see 90i:00006)
- Bourgain, J. (with Gromov, Mikhail L.) Estimates of Bernstein widths of Sobolev spaces. 90c:41034
- Chernyskaya, N. A. Diameters of the embedding of the weighted space $H_p(\mathcal{F}_n)$ in $L_p(\mathcal{F}_n)$. (Russian) 90c:41052
- DeVore, R. A. (with Howard, Ralph; Micchelli, Charles A.) Optimal nonlinear approximation. 90c:41053
- Fang, Gen Sun An estimate of the width of the class $W'H^p$ of nonperiodic functions. (Chinese. English summary) 90c:41041
- One-sided N -widths for a class of periodic functions. 90c:41035
- Galeev, É. M. Kolmogorov widths of classes of periodic functions with several bounded derivatives. (Russian) (see 90m:00040)
- Glushko, E. D. The intersection of a cube with an octahedron is poorly approximated by subspaces of small dimension. (Russian) (see 90d:00009)
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- A remark on Aleksandrov widths of finite-dimensional sets. 90c:41026
- Kushpel, A. K. μ -widths of sets in a Hilbert space. (Russian) 90c:41046

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 Makovoz, Yuly A simple proof of an inequality in the theory of n -widths. 90h:41027
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- Abakumov, Yu. G. A criterion for the continuability of Chebyshev systems and construction of examples of noncontinuable Chebyshev systems. (Russian) (see 90h:00005)
 — (with Vinogradov, O. M.) Conditions for continuability of Chebyshev systems. (Russian) 90d:41047
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- Wong, Roderick ★ Asymptotic approximations of integrals. 90j:41061
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- Yarakhmedov, G. A. Generalized asymptotic curves. (Russian) 90c:41067
- Items with secondary classifications in 41A60
- Aparicio Bernardo, Emiliano On the asymptotic structure of the polynomials of minimal Diophantine deviation from zero. 90h:41010
- Badkov, V. M. Uniform asymptotic representations of orthogonal polynomials and their derivatives in the case of a weight with singularities. (Russian) (see 90i:00006)
- Bak, Jong-Guk (with McMichael, David; Vance, James; Wainger, S.) Fourier transforms of surface area measure on convex surfaces in \mathbb{R}^3 . 90j:42040
- (Banerjee, Uday) see Xu, Li Zhi, 90j:41043
- Barstella, Paola (with Gatteschi, Luigi) The bounds for the error term of an asymptotic approximation of Jacobi polynomials. 90c:33028
- Berg, Lothar On Danieljan's class of distribution functions. 90k:44001
- Clarkowski, Adam Uniform and quasi-uniform asymptotic expansions of incomplete diffraction integrals. 90d:78009
- Davies, I. M. (with Truman, A.) Corrigendum: "Laplace asymptotic expansions of conditional Wiener integrals and generalised Mehler kernel formulae for Hamiltonians on $L^2(\mathbb{R}^n)$ " [J. Phys. A 17 (1984), no. 14, 2773–2789; MR 86k:81058]. 90c:81056
- Davydov, O. V. Asymptotic behavior of best approximations of individual functions of classes $W^r H_p$ in the metric L_p . 90m:41038
- Dubeau, François (with Savoie, Jean) Développements asymptotiques de fonctions splines avec partage uniforme de la droite réelle. (English summary) [Asymptotic expansions of spline functions with uniform partition of the real line] 90d:41017
- Edersman, V. Ya. An exceptional set in asymptotic estimates of subharmonic functions. 90c:31001
- El-Sharkawy, S. A. On the generating functions for some special functions and related topics. (Arabic summary) 90k:33020
- Flajolet, Philippe (with Odlyzko, Andrew M.) Singularity analysis of generating functions. 90m:05012
- Gao, Jian The asymptotic expansions of quintic lacunary interpolation splines. (Chinese. English summary) 90c:65022
- Gatteschi, Luigi see Barstella, Paola, 90c:33028
- Gel'fand, I. M. (with Siddiqui, R. N.) On the asymptotic behaviour of a class of trigonometric series. 90m:42006
- Gusynin, V. P. New algorithm for computing the coefficients in the heat kernel expansion. 90k:58215
- Hernández Herrera, René (with López Lagomasino, Guillermo) Relative asymptotics of orthogonal polynomials with respect to varying measures. II. 90j:42057
- Ikromov, I. A. Invariant estimates for oscillatory integrals. (Russian) 90j:58010
- Karpukhin, V. N. Refined uniform estimates for oscillatory integrals and areas. 90b:58261
— Uniform estimates for some oscillatory integrals. 90i:58014
- Knuth, Donald E. (with Wilf, Herbert S.) A short proof of Darboux's lemma. 90i:30065
- Korenkov, N. E. Asymptotic properties of Weierstrass sigma functions and Jacobi theta functions. 90h:33030
- (Lardy, L. J.) see Xu, Li Zhi, 90j:41043
- López Lagomasino, Guillermo (with Rakhmanov, E. A.) Rational approximations, orthogonal polynomials and equilibrium distributions. 90d:41028
— Asymptotics of polynomials orthogonal with respect to varying measures. 90h:42036
— see also Hernández Herrera, René, 90j:42057
- Lubinsky, D. S. (with Saff, E. B.) Sufficient conditions for asymptotics associated with weighted extremal problems on \mathbb{R} . 90h:42037
- (Lutoborski, A.) see Xu, Li Zhi, 90j:41043
- Mao, Ze Chun see Sun, Jun Yi, 90c:41022
- Marschik, A. S. Construction of asymptotic expansions of solutions to functional equations and to systems of such by the method of Lie series. (Russian) (see 90i:00001)
- McMichael, David see Bak, Jong-Guk; et al., 90j:42040
- Meyer, R. E. A simple explanation of the Stokes phenomenon. 90f:34097
- Odlyzko, Andrew M. see Flajolet, Philippe, 90m:05012
- Omey, Edward (with Willekens, E.) Abelian and Tauberian theorems for the Laplace transform of functions in several variables. 90j:44003
- Oughstun, Kurt Edmund (with Sherman, George C.) Uniform asymptotic description of electromagnetic pulse propagation in a linear dispersive medium with absorption (the Lorentz medium). 90h:78014
- Rakhmanov, E. A. see López Lagomasino, Guillermo, 90d:41028
- Rasovskii, L. V. Asymptotic expansion of the Fourier-Stieltjes transform of finite measure in some neighborhood of zero. 90h:42028
- Saff, E. B. see Lubinsky, D. S., 90h:42037
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- Siddiqui, R. N. see Gel'fand, I. M., 90m:42006
- Stepanets, A. I. Fourier sums: new results and unsolved problems. 90c:42008
— Simultaneous approximation of functions and their (γ, β) -derivatives by Fourier sums. 90k:42011
- Sun, Jun Yi (with Mao, Ze Chun) Asymptotic expansion of the remainder term for type I interpolation by cubic splines with nonequidistant nodes. (Chinese. English summary) 90c:41022
- Sweeting, Trevor J. Recent results on asymptotic expansions in extreme value theory. 90k:60048
- Truman, A. see Davies, I. M., 90c:81056
- Ullman, Joseph L. Orthogonal polynomials for general measures. 90j:42050
- Vance, James see Bak, Jong-Guk; et al., 90j:42040
- Wainger, S. see Bak, Jong-Guk; et al., 90j:42040
- Widom, Harold On Wiener-Hopf determinants. 90m:47044
- Wilf, Herbert S. see Knuth, Donald E., 90i:30065
- Willekens, E. see Omey, Edward, 90j:44003
- Xu, Li Zhi A remark on a paper of U. Banerjee, L. J. Lardy and A. Lutoborski: "Asymptotic expansions of integrals of certain rapidly oscillating functions" [Math. Comp. 49 (1987), no. 179, 243–249; MR 88e:41063]. 90j:41043
- 41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)**
- Temlyakov, V. N. Bilinear approximation and applications. (Russian) 90k:41035
- Items with secondary classifications in 41A63
- Aleksandrov, Ljudmil G. (with Popov, Vasil Atanasov) One-sided trigonometrical approximation of periodic multivariate functions. 90c:42001
- Bazilek, M. S. Approximation of functions of several variables by the polynomials of S. N. Bernstein. (Russian) 90c:41002
- Blaga, Petru On a bivariate integral spline operator. (Romanian summary) 90c:41013
- Behrmann, M. D. Cardinal interpolation with radial basis functions: an integral transform approach. 90m:41004
- Betzer, P. L. (with Hinsen, G.) Two-dimensional nonuniform sampling expansions—an iterative approach. I. Theory of two-dimensional bandlimited signals. 90j:41002
— (with Hinsen, G.) Two-dimensional nonuniform sampling expansions—an iterative approach. II. Reconstruction formulae and applications. 90j:41003
- Cabay, Stan see Labahn, George, 90k:41023
- Chaffy-Camus, Claudine An application of REDUCE to the approximation of $f(x, y)$. 90m:41027
- Chui, C. K. (with He, Tian Xiao) Bivariate C^1 quadratic finite elements and vertex splines. 90c:65012
- Dahmen, Wolfgang (with Goodman, T. N. T.; Micchelli, Charles A.) Local spline interpolation schemes in one and several variables. 90b:41017
— (with Micchelli, Charles A.) On multivariate E -splines. 90m:41020
- Dangavet, V. A. (with Sazonova, L. V.) Some problems in multidimensional approximation. (Russian) 90d:41032
- Ditzian, Z. The modulus of smoothness and discrete data in a square domain. 90c:65017
— Best polynomial approximation and Bernstein polynomial approximation on a simplex. 90j:41007
- Dyn, N. (with Ron, Amos) Periodic exponential box splines on a three direction mesh. 90b:41019
- Goetheluck, Pierre On a polynomial inequality connected with the multivariate Markov inequality. 90c:41008
- Goodman, T. N. T. (with Lee, Seng Luan; Sharma, Ambikeshwar) Approximation and interpolation by complex splines on the torus. 90j:41018
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- He, Tian Xiao see Chui, C. K., 90c:65012
- Hinsen, G. see Betzer, P. L., 90j:41002 and 90j:41003
- Ignatov, Tsvetan G. (with Kaishev, V. K.) Some properties of generalized B -splines. 90i:41022
- Ivanov, Kamen G. see Khristov, Vladimir Kh., 90k:41027
- Kaishev, V. K. see Ignatov, Tsvetan G., 90i:41022
- Khristov, Vladimir Kh. (with Ivanov, Kamen G.) Operators for one-sided approximation of functions. 90k:41027
- Koshchev, V. A. Chebyshev systems of functions, and vector fields on spheres. 90m:41041
- Kuang, Ji Chang Approximation of elliptic Riesz operators on $H^p(T^n)$. (Chinese. English summary) 90j:41052
- Labahn, George (with Cabay, Stan) Matrix Padé fractions and their computation. 90k:41023
- Lachance, Michael A. Chebyshev economization for parametric surfaces. 90b:65020
- Lascoux, Alain Interpolation de Lagrange. [Lagrange interpolation] 90m:41008
- Lee, Seng Luan see Goodman, T. N. T.; et al., 90j:41018
- Leaze, Burkhard On multidimensional Lebesgue-Stieltjes convolution operators. 90k:41032
- Lorentz, G. G. (with Lorentz, Rudolph Alexander) Solvability of bivariate interpolation. II. Applications. 90d:41003
— Solvability of multivariate interpolation. 90j:41004
- Lorentz, Rudolph Alexander Uniform bivariate Hermite interpolation. 90j:41005
— see also Lorentz, G. G., 90d:41003
- Madych, W. R. (with Nelson, S. A.) Polyharmonic cardinal splines. 90j:41022 (McFadden, H. H.) see Temlyakov, V. N., 90c:00007
- Micchelli, Charles A. see Dahmen, Wolfgang; et al., 90b:41017 and 90m:41020
- Moldovan, Grigor An automorphism property of a class of polynomial-type positive convolutive operators. (Romanian summary) 90c:41046
- Mühlbach, G. On multivariate interpolation by generalized polynomials on subsets of grids. (German summary) 90c:65020
- Nelson, S. A. see Madych, W. R., 90j:41022
- Ogawa, Shiro see Zhang, Guofeng, 90f:41011
- Perviy, A. B. Some integral identities that are connected with splines of n variables. (Russian) 90j:41026
- Pinkus, Allan M. (with Strauss, Hans) One-sided L^1 -approximation to differentiable functions. 90a:41023
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- Quak, Ewald Multivariate L_p -error estimates for positive linear operators via the first-order r -modulus. 90f:41031
- von Radziewski, Karin Bivariate Hermite spline interpolation. 90i:41011
- Ron, Amos A necessary and sufficient condition for the linear independence of the integer translates of a compactly supported distribution. 90j:41019
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- Sha, Zhen (with Xuan, Pei Cai) Interpolation and approximation with doubly periodic cubic splines on type II triangulations. (Chinese. English summary) 90d:41024

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Temlyakov, V. N. Approximation of functions with bounded mixed derivative. 90c:00007

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Brown, Aldric L. Continuous selections for metric projections in spaces of continuous functions: on results of Thomas Fischer, results of Li Wu and the relation between them. 90m:41050

Chandrasekaran, K. R. Best coapproximation in normed linear spaces by elements of one- and two-dimensional subspaces. 90m:41051

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Cho, Chong-Man Best approximation by compact operators. 90b:41041

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Deeb, W. (with Khalil, Roshdi) Best approximation in $L^p(I, X)$, $0 < p < 1$. 90b:41042

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Deutsch, Frank An exposition of recent results on continuous metric selections. 90b:41043

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Filippov, V. I. Representation systems in B -spaces. (Russian) *see* 90d:00046

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Gabriel, Richard Zur besten normalen Approximation komplexer Matrizen in der Euklidischen norm. [On the best normal approximation of complex matrices in the Euclidean norm] 90b:41041

Giles, John Differentiability of distance functions and a proximal property inducing convexity. 90g:41051

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Guo, Yuan Ming Characterization and unicity of best simultaneous approximation. (Chinese. English summary) 90b:41044

Hootari, Robert (with Zwick, D.) Approximation in the mean by convex functions. 90b:41042

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Maksimova, A. A. Estimates for some seminorms by means of best approximation by spherical sums. (Russian) *see* 90d:00009

Mircea, Mihail Conditions nécessaires et suffisantes pour la convergence forte des projecteurs spline. (Romanian summary) [Necessary and sufficient conditions for the strong convergence of spline projectors] 90g:41053

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Nishikubara, Toshihiko Saturation of iterations of bounded linear operators. 90j:41064

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— Korovkin-type theorems for positive functionals in spaces of continuous affine functions. (Italian summary) 90c:46035

Anderson, Brian D. O. (with Liu, Yi) Controller reduction: concepts and approaches. (Not in MR)

Avez, A. Un théorème de Haar. (English summary) [A theorem of Haar] 90b:41008

Belaganskii, V. S. Fréchet differentiability of the distance function, and the structure of a set. 90d:46022

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Beer, Gerald Metric projections and the Fell topology. (Italian summary) 90b:54026

Belov, Yu. A. (with Kar'yanyuk, V. S.) On the set of values of a system of linear functionals according to data from another system of linear functionals. 90j:49005

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Brosowski, Bruno (with Guerreiro, Claudia) On the uniqueness and strong uniqueness of best rational Chebyshev-approximation. 90c:41027

Brown, Aldric L. Set valued mappings, continuous selections, and metric projections. 90i:54047

Chang, Bor Chin (with Banda, S. S.; McQuade, T. E.) Fast iterative computation of optimal two-block H^∞ -norm. 90d:93027

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Chiacchio, Ary O. (with Matos, M. C.; Roversi, M. S. M.) On best approximation by rational and holomorphic mappings between Banach spaces. 90b:46106

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DeVore, R. A. (with Popov, Vasil Atanasov) Interpolation of approximation spaces. 90c:46076

Ding, Guang Gai The approximation problem of almost isometric operators by isometric operators. 90g:47035

Dudziak, James A weak-star rational approximation problem connected with subnormal operators. 90b:30072

Elmalal, S. Interpolation in Hilbert spaces. 90c:46018

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- Gluska, E. D. The intersection of a cube with an octahedron is poorly approximated by subspaces of small dimension. (Russian) (see 90d:90099)
- Gohberg, I. (with Kaashoek, M. A.; Ran, A. C. M.) Interpolation problems for rational matrix functions with incomplete data and Wiener-Hopf factorization. 90m:47003
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- Gu, Chong (with Bates, Douglas M.; Chen, Ze Hua; Wahba, Grace) The computation of generalized cross-validation functions through Householder tridiagonalization with applications to the fitting of interaction spline models. 90m:65084
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- He, Li² (see Guo, Yuan Ming, 90j:50150)
- He, Tian Xiao (see Chui, C. K.; et al., 90c:41022)
- He, Ze Lin Approximation by a class of operators and best approximation in $L^p(G)$ with $1 < p < \infty$ and $G = \mathbb{R}, \mathbb{T}$, or \mathbb{Z} . (Chinese) 90g:43008
- Huang, Sen Zhong Renorming and the problem of isometric approximation. (Chinese) 90f:46028
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- Kas'yanuk, V. S. (see Belov, Yu. A., 90j:49005)
- Khoshdel, A. B. Some exact values for Kolmogorov widths in finite-dimensional spaces. (Russian. English summary) 90f:41032
- Kitahara, Kazuaki A note on approximation by step functions. 90m:41014
- Kowalski, Marek A. (with Stenger, Frank) Optimal complexity recovery of band- and energy-limited signals. II. 90c:41003
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- Li, Chong Characteristics of nonlinear simultaneous Chebyshev approximation. (Chinese. English summary) 90c:41017
- Li, Wu Strong uniqueness and Lipschitz continuity of metric projections: a generalization of the classical Haar theory. 90c:41013
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- Light, William A. Boolean sums of operators and projection constants. 90c:47011
- Lima, Ásvald (with Yost, David Thomas) Absolutely Chebyshev subspaces. 90h:46030
- Lia, Pei-Kee Strongly unique best approximation in uniformly convex Banach spaces. 90k:41045
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- Lia, Li Wei Best L_p approximation of Lebesgue-Bochner summable functions. (Chinese. English summary) 90m:41042
- Lia, Yi¹ (see Anderson, Brian D. O., (Not in MR))
- Mabizela, Siwwe A characterization of strictly convex linear 2-normed spaces. 90f:46011
- Malozov, V. E. Trigonometric widths of Sobolev classes. (Russian) (see 90d:90046)
- Mallat, Stéphane G. Multiresolution approximations and wavelet orthonormal bases of $L^2(\mathbb{R})$. 90c:42046
- Mates, M. C. (see Chiacchio, Ary O.; et al., 90k:46106)
- McQuade, T. E. (see Chang, Bor Chin; et al., 90d:93027)
- Mena-Jurado, J. F. (with Payá-Albert, Rafael; Rodríguez-Palacios, Ángel) Absolute subspaces of Banach spaces. 90c:46024
- Miamou, A. G. (with Pourahmadi, Mohsen) Best approximations in $L^p(d\mu)$ and prediction problems of Szegő, Kolmogorov, Yaglom, and Nakazi. 90g:60042
- Mihail, Mircea Sur la convergence des suites de projecteurs spline. [On the convergence of sequences of spline projectors] 90g:41015
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- The order of approximation by positive linear operators. 90c:41033
- Oja, Evi Strong uniqueness of minimal extension of continuous linear functionals and a theorem on a monotone τ -weak basis. (Russian. English summary) 90m:46017
- Păltineanu, G. Considérations sur une certaine classe de parties d'interpolation stricte d'un espace compact par rapport à un espace vectoriel de fonctions continues. [Remarks on a certain class of strict interpolation subsets of a compact space with respect to a continuous-function vector space] 90k:46055
- Pannenberg, Michael Topics in qualitative Korovkin approximation. 90c:46064
- Park, Sung Ho A relationship between the $1\frac{1}{2}$ -ball property and the strong $1\frac{1}{2}$ -ball property. 90g:46030
- (see also Deutsch, Frank; et al., 90k:41028)
- Payá-Albert, Rafael (see Mena-Jurado, J. F.; et al., 90c:46024)
- Pichugov, S. A. The Jung constant of the space L_p . 90a:46037
- Pinkus, Allan M. (with Strauss, Hans) One-sided L^1 -approximation to differentiable functions. 90c:41023
- Popov, Vasil Atanasov (see DeVore, R. A., 90c:46076)
- Pourahmadi, Mohsen (see Miamou, A. G., 90g:60042)
- Przeworska-Rolewicz, Danuta Property (c) and interpolation formulae induced by right invertible operators. 90c:47002
- Ran, A. C. M. (see Gohberg, I.; et al., 90m:47003)
- Raja, I. On some test systems in approximation by linear operators. 90f:41033
- Reich, Edgar On approximation by rational functions of class L^1 . 90d:30111
- Rodríguez-Palacios, Ángel (see Mena-Jurado, J. F.; et al., 90c:46024)
- Roth, Walter Families of convex subsets and Korovkin-type theorems in locally-convex spaces. 90k:46017
- Roversi, M. S. M. (see Chiacchio, Ary O.; et al., 90k:46106)
- Sahai, Salem M. A. On the monotone simultaneous approximation on $[0, 1]$. 90c:41036
- Scherer, Carsten H_∞ -control by state feedback: an iterative algorithm and characterization of high-gain occurrence. (Not in MR)
- Scull, S. C. Bézier curves on groups. 90k:65058
- Shaked, U. The explicit structure of inner matrices and its application in H^∞ -optimization. (Not in MR)
- Smirnov, G. S. A remark on the best approximation in the mean of vector-valued functions. 90f:41036
- Stenger, Frank (see Kowalski, Marek A., 90c:41003)
- Stoiciak, Stanislaw An application of modular spaces to approximation problems. IV. 90h:46054
- An application of modular spaces to approximation problems. V. 90h:46055
- Strauss, Hans (see Pinkus, Allan M., 90a:41023)
- Sen, Xie Hua Lagrange interpolation of functions of generalized bounded variation. 90c:41003
- Timofeev, V. G. An extremal inequality of Landau type with iterated Laplace operators in $L_2(\mathbb{R}^n)$. (Russian) (see 90d:90046)
- Townsend, Douglas (see Huotari, Robert; et al., 90f:41033)
- Tsarkov, I. G. Local "homogeneity" of sets of uniqueness. (Russian) 90m:46028
- Tal'kubov, A. D. (see Akhiezer, G. A., (90h:90003))
- Verma, Vandana (see Mukherjee, Rathindra Nath¹, 90g:47103)
- Vasil'ev, A. I. Existence of an element of best approximation in linear metric spaces. (Russian) 90k:46008
- Vértesi, Péter Derivatives of projection operators. 90c:41005
- Wahba, Grace (see Gu, Chong; et al., 90m:65084)
- Wang, Jia Ping (with Yu, Xin Tai) Chebyshev centers, ϵ -Chebyshev centers and the Hausdorff metric. 90a:46042
- Wang, Yu Wen (with Chen, Shu Tao) Applications of the geometric theory of Banach spaces in optimization theory. (Chinese. English summary) 90f:90078
- van Wickeren, E. (see Nessel, R. J., 90b:46110)
- Wu, Pei Yuan Approximation by invertible and noninvertible operators. 90c:47003
- Xu, Li Zhi (see Chui, C. K.; et al., 90c:41022)
- Xu, Zong Ben Characteristic inequalities for L^p spaces and their applications. (Chinese) 90k:46041
- Yost, David Thomas (see Lima, Ásvald, 90h:46030)
- Yu, Xin Tai (see Wang, Jia Ping, 90a:46042)
- Zhivkov, N. V. A characterization of reflexive spaces by means of continuous approximate selections for metric projections. 90f:46020
- Zhou, Song Ping On the extension of a theorem of W. Dickmeis et al. 90k:46056

41A80 Remainders in approximation formulas

Items with secondary classifications in 41A80

- Dubau, François (with Savoie, Jean) Développements asymptotiques de fonctions splines avec partage uniforme de la droite réelle. (English summary) [Asymptotic expansions of spline functions with uniform partition of the real line] 90d:41017
- Mao, Ze Chun (see Sun, Jun Yi, 90c:41022)
- Rivlin, T. J. Gauss quadrature for analytic functions. 90c:65031
- Savoie, Jean (see Dubau, François, 90d:41017)
- Sun, Jun Yi (with Mao, Ze Chun) Asymptotic expansion of the remainder term for type I interpolation by cubic splines with nonequidistant nodes. (Chinese. English summary) 90c:41022
- Telyakovskii, S. A. Approximation by Fourier sums of functions of high smoothness. 90k:42064

41A99 Miscellaneous topics

- Coman, Gh. (with Gănsă, Ioan; Tămbulea, Leon) Some practical application of blending interpolation. (see 90m:41003)
- DeVore, R. A. A note on adaptive approximation. 90m:41036
- Gănsă, Ioan (see Coman, Gh.; et al., (90m:41003))
- Ivanov, Kamen G. A characterization of weighted Peetre K -functionals. 90h:41038
- Korneichuk, N. P. Approximation and optimal coding of smooth plane curves. 90k:41048
- Litvin, O. N. Reconstruction of functions from traces of their normal derivatives on the line in \mathbb{R}^2 with preservation of the class $C^r(\mathbb{R}^2)$. 90g:41057
- Namasivayam, S. (with Ortiz, E. L.) Some remarks on the structure of the error of tau method approximations. (see 90d:90045)
- Ortiz, E. L. (see Namasivayam, S., (90d:90045))
- Tămbulea, Leon (see Coman, Gh.; et al., (90m:41003))
- Zalik, R. A. Integral representation and embedding of weak Markov systems. 90f:41047

Items with secondary classifications in 41A99

- Borgogno, Maria On an approximation method for a class of parametric Lagrange problems. (Italian. English summary) 90c:49024
- Córdova Yévenes, Antonio (with Ruscheweyh, Stephan) On maximal ranges of polynomial spaces in the unit disk. 90h:30013
- Kolushov, A. V. Differential properties of the operator of best approximation by rational fractions. 90h:41031
- Prasad, Ram Sundar (with Vishwakarma, Braj Kumar) Least square approximation of the Bessel's function. 90i:33015
- Ruscheweyh, Stephan (see Córdova Yévenes, Antonio, 90h:30013)
- Stepanenko, P. T. (see Vakarchuk, B. S., 90f:65029)
- Vakarchuk, B. S. (with Stepanenko, P. T.) On a geometric method for reconstructing surfaces by means of a one-parameter family of arcs of circles. (Russian) 90f:65029
- Vishwakarma, Braj Kumar (see Prasad, Ram Sundar, 90i:33015)

42-XX Fourier analysis

42-01 Elementary exposition; textbooks

- Breitenberger, Ernst ★ Probability, convolutions, and distributions. 90k:42001
 Körner, T. W. ★ Fourier analysis. 90g:42001
 Walker, James Stephen ★ Fourier analysis. 90b:42001
 Zaanen, Adriaan C. ★ Continuity, integration and Fourier theory. 90b:42002

42-02 Advanced exposition (research surveys, monographs, etc.)

- (Boas, Ralph P.) see Kashin, B. S., 90g:42001
 Chandrasekharan, Komaravolu ★ Classical Fourier transforms. 90c:42001
 Kashin, B. S. (with Saakyan, A. A.) ★ Orthogonal series. 90g:42001
 Saakyan, A. A. see Kashin, B. S., 90g:42001
 Silver, Ben see Kashin, B. S., 90g:42001
 Weaver, H. Joseph ★ Theory of discrete and continuous Fourier analysis. 90c:42002

Items with secondary classifications in 42-02

- Bochkarev, S. V. Bases in function spaces and the Franklin system. (Russian) 90k:42039
 (Kahane, Jean-Pierre) see Wiener, Norbert, 90b:42022
 Kechris, Alexander S. (with Louveau, Alain) ★ Descriptive set theory and the structure of sets of uniqueness. 90c:42008
 Louveau, Alain see Kechris, Alexander S., 90a:42008
 Strömberg, Jan-Olov (with Torchinsky, Alberto) ★ Weighted Hardy spaces. 90g:42053
 Suetin, P. K. ★ Ортогональные многочлены по двум переменным. (Russian) [Orthogonal polynomials in two variables] 90g:42055
 Torchinsky, Alberto see Strömberg, Jan-Olov, 90g:42053
 Ullman, Joseph L. Orthogonal polynomials for general measures. 90g:42050
 Wiener, Norbert ★ The Fourier integral and certain of its applications. 90b:42022
 Zhuk, V. V. ★ Сильная аппроксимация периодических функций. (Russian) [Strong approximation of periodic functions] 90g:42008

42-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 42-03

- (Descartes, R.) see Eisenberg, Wolfgang, 90g:01011
 (Dryadik, V. K.) see Stepanets, A. I., 90f:01054a
 Eisenberg, Wolfgang Theorienauffassungen in der Physikgeschichte. 17. Jahrhundert—zum Vergleich der Theorienauffassungen von R. Descartes und C. Huygens. [Concepts of theories in the history of physics. 17th century—a comparison of the concepts of theories of R. Descartes and C. Huygens] 90g:01011
 (Huygens, Christiaan) see Eisenberg, Wolfgang, 90g:01011
 Langwitz, Detlef Grundlagen der Analysis bei C. F. Gauss. I. Trigonometrische Reihen. (English summary) [Foundations of analysis in C. F. Gauss. I. Trigonometric series] 90k:01010
 Lighthill, James Reminiscences about Fourier analysis and generalised functions. 90g:01033
 Stein, E. M. Commentary on Fourier analysis. 90g:01032
 Stepanets, A. I. V. K. Dryadik's research on the theory of approximating periodic functions. 90f:01054a

42-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 42-04

- Barrett, A. N. (with Mackay, A. L.) ★ Spatial structure and the microcomputer. 90b:68096
 Mackay, A. L. see Barrett, A. N., 90b:68096

42-06 Proceedings, conferences, etc.

- (Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 90g:42002
 (García-Cuerva, José) see Harmonic analysis and partial differential equations, 90d:42001
 (Vinnasa Tejedor, Jaime) see Orthogonal polynomials and their applications, 90a:42001

Items listed otherwise than by author

Conference:

- Harmonic Analysis and Partial Differential Equations ★ Harmonic analysis and partial differential equations. 90d:42001

Congress:

- Orthogonal Polynomials ★ Orthogonal polynomials and their applications. 90a:42001
 Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 42. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 42] 90g:42002

El Escorial ★ Harmonic analysis and partial differential equations. 90d:42001

Harmonic analysis and partial differential equations ★ Harmonic analysis and partial differential equations. 90d:42001

- Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 42. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 42] 90g:42002

Lecture ★ Orthogonal polynomials and their applications. 90a:42001

Notes in Mathematics ★ Harmonic analysis and partial differential equations. 90d:42001

- Orthogonal polynomials and their applications ★ Orthogonal polynomials and their applications. 90a:42001

Items with secondary classifications in 42-06

- (Coella, David) see Commutative harmonic analysis, 90a:43001
 (Combes, J. M.) see Wavelets, 90g:42062
 (Dryadik, V. K.) see Harmonic analysis and the development of approximation methods, 90m:41002
 (Gohberg, I.) see Orthogonal matrix-valued polynomials and applications, 90k:41001
 (Grossmann, A.) see Wavelets, 90g:42062
 (Ivanov, Kamen G.) see Constructive theory of functions, 90a:41001
 (Maheev, R. P.) see Constructive theory of functions, 90a:41001
 (Nikol'skii, S. M.) see Theory of functions, (Not in MR)
 (Petrushkevich, P. P.) see Constructive theory of functions, 90a:41001
 (Sendov, Bl.) see Constructive theory of functions, 90a:41001
 (Tchamitchian, Ph.) see Wavelets, 90g:42062

Items listed otherwise than by author

All-Union School:

- Theory of Functions ★ Теория функций. (Russian) [Theory of functions] (Not in MR)
 Amberg ★ Теория функций. (Russian) [Theory of functions] (Not in MR)

Canton, NY ★ Commutative harmonic analysis. 90a:43001

Commutative harmonic analysis ★ Commutative harmonic analysis. 90a:43001

Conference:

- Commutative Harmonic Analysis ★ Commutative harmonic analysis. 90a:43001
 Constructive Theory of Functions ★ Constructive theory of functions. 90a:41001
 Wavelets ★ Wavelets. 90g:42062

Constructive theory of functions ★ Constructive theory of functions. 90a:41001

Contemporary Mathematics ★ Commutative harmonic analysis. 90a:43001

Harmonic analysis and the development of approximation methods ★ Гармонический анализ и развитие аппроксимационных методов. (Russian) [Harmonic analysis and the development of approximation methods] 90m:41002

Marseille ★ Wavelets. 90g:42062

Orthogonal matrix-valued polynomials and applications ★ Orthogonal matrix-valued polynomials and applications. 90k:41001

Seminar:

Operator Theory ★ Orthogonal matrix-valued polynomials and applications. 90k:41001

Tel Aviv ★ Orthogonal matrix-valued polynomials and applications. 90k:41001

Theory of functions ★ Теория функций. (Russian) [Theory of functions] (Not in MR)

Varna ★ Constructive theory of functions. 90a:41001

Wavelets ★ Wavelets. 90g:42062

42Axx Fourier analysis in one variable

42A05 Trigonometric polynomials, inequalities, extremal problems

- Babenko, A. G. The Jackson inequality in a space of square-summable functions. (Russian) (see 90i:00006)
 Chen, Qing Yi Integrals of oscillatory functions with a parameter. (Chinese. English summary) 90d:42002
 Donoho, David L. (with Stark, Philip B.) Uncertainty principles and signal recovery. 90c:42003
 Erdélyi, T. (with Szabados, J.) Bernstein type inequalities for a class of polynomials. 90f:42001
 Fil'shtinskii, V. A. see Litvinets, P. D., 90a:42002
 Fomin, G. A. Accuracy of A. Lebesgue's generalized inequality in $L_{2\pi}$. (Russian) (see 90i:00006)
 Fredman, Michael L. (with Saffari, Bahman; Smith, Brent) Polynômes réciproques: conjecture d'Erdős en norme L^4 , taille des autocorrélations et inexistence des codes de Barker. (English summary) [Self-inversive polynomials: L^4 -norm Erdős conjecture, size of autocorrelations and nonexistence of Barker codes] 90c:42004
 Kashin, B. S. Trigonometric polynomials with coefficients modulo zero or one. (Russian) (see 90i:00006)
 Kristiansen, G. K. A property of the trigonometric polynomials $T_{m,p,q}$. 90g:42003
 Litvinets, P. D. (with Fil'shtinskii, V. A.) A remark on an estimate for a segment of a trigonometric polynomial. (Russian) 90a:42002
 Liu, Yong Ping The approximation properties of a class of trigonometric polynomial interpolation operators. (Chinese. English summary) 90b:42003
 Logan, B. F. An interference problem for exponentials. 90a:42003
 Pachulia, N. L. Strong summability of the Fourier series of (φ, β) -differentiable functions. 90h:42001
 Saffari, Bahman see Fredman, Michael L.; et al., 90c:42004
 Shekhtman, Boris On a problem of G. G. Lorentz regarding the norms of Fourier projections. 90g:42004
 Smith, Brent see Fredman, Michael L.; et al., 90c:42004
 Stark, Philip B. see Donoho, David L., 90c:42003
 Stepanov, V. D. Weighted inequalities of Hardy type for higher-order derivatives and their applications. 90k:42002
 Szabados, J. see Erdélyi, T., 90f:42001
 Zeev, E. O. On the theory of lacunary trigonometric operators over equidistant nodes. (Russian) 90k:42003

Items with secondary classifications in 42A05

- Beauzamy, Bernard Inégalité de Jensen et polynômes concentrés aux bas degrés. [Jensen's inequality and polynomials concentrated at low degrees] (see 90a:00013)
 Bourgain, J. On the behavior of the constant in the Littlewood-Paley inequality. 90g:26010
 Durand, Alain Quelques aspects de la théorie analytique des polynômes. I, II. [Some aspects of the analytic theory of polynomials. I, II] 90m:12003
 von Golitschek, M. (with Lorentz, G. G.) Bernstein inequalities in L_p , $0 \leq p \leq +\infty$. 90h:26020

- Gregorac, R. J. On Baica's trigonometric identity. 90b:33002
 Hajela, D. Exponential sums and faster than Nyquist signaling. 90m:11122
 Logan, B. F. Bounds for the tails of sharp-cutoff filter kernels. 90m:54009
 Lorentz, G. G. *see* von Golitschek, M., 90b:26020
 Proinov, Petko D. On the Erdős-Turán inequality on uniform distribution. I. 90c:11048a
 — On the Erdős-Turán inequality on uniform distribution. II. 90c:11048b
 Tudor, Gheorghe M. Quelques inégalités sur les polynômes et séries trigonométriques en plusieurs variables. (Romanian summary) [Some inequalities for polynomials and trigonometric series in several variables] 90f:42012

42A10 Trigonometric approximation

- Aleksandrov, Ljadmil G. (with Popov, Vasil Atanasov) One-sided trigonometrical approximation of periodic multivariate functions. 90e:42001
 Andrienko, V. A. Approximation by Riesz means of negative order. (Russian) (see 90i:00006)
 — On the rate of approximation of functions by multiple orthogonal series. (see 90a:41001)
 Auer, M. *see* Runck, P. O.; et al., 90e:42007
 Baskakov, V. A. Comparison of orders of approximation of classes of functions of several variables. (Russian) (see 90m:00015)
 Belinskii, É. S. Approximation of functions of several variables by trigonometric polynomials with given number of harmonics, and estimates of ϵ -entropy. (Russian summary) 90m:42001
 Chandra, Prem (with Mohapatra, Ram Narayan) Approximation of functions by (J, q_n) means of Fourier series. 90b:42004
 — Functions in L_p -space and their approximations. (Serbo-Croatian summary) 90e:42002
 — Degree of approximation of continuous functions. 90j:42002
 Chen, Quan De *see* Shi, Xian Liang, 90c:42005
 Chinchaladze, S. V. Approximation of constants by sums of trigonometric functions. (Russian. English and Georgian summaries) 90j:42003
 Darydov, E. G. (with Petrov, I. I.) A boundary value problem and its application to the theory of the approximation of functions. (Russian) (see 90d:34003)
 Dvorschak, G. *see* Runck, P. O.; et al., 90e:42007
 Erdélyi, T. (with Szabados, J.) On trigonometric polynomials with positive coefficients. 90k:42005
 Esmaganbetov, M. G. On the accuracy of estimates for the modulus of smoothness of a function in $L_p[0, 2\pi]$, $1 < p < \infty$. (Russian) (see 90h:00003)
 — *see also* Smallov, E. S., 90e:42004
 Falaleev, L. P. Approximate properties of operators of Abel-Poisson operator type. (Russian) (see 90d:00046)
 Fomin, G. A. A refined Lebesgue inequality for orthogonal expansions in some normed spaces. (Russian) 90k:42006
 Galeev, E. M. Approximation of periodic functions of one and several variables. (see 90a:41001)
 Goodman, T. N. T. (with Lee, Seng Luan) Convolution operators with trigonometric spline kernels. 90j:42004
 Gao, Shan Sheng (with Xu, Li Zhi) Characterization of the class $Lip^* \alpha$ of periodic functions by means of the Rappoport operator. 90d:42003
 Gupta, Vandana *see* Pathak, Ashutosh, 90j:42005
 Ibrakulov, A. M. Estimates for the moduli of smoothness of fractional order of functions in $L[0, 2\pi]$. (Russian) (see 90h:00003)
 Ilyasov, Sh. I. Approximation of differentiable functions by partial sums of Fourier-Laguerre series. (Russian) (see 90h:00003)
 Imambaeva, B. D. (with Seksenbaeva, A. K.) Estimates for the widths of embedding of spaces of smooth functions with weight. (Russian) (see 90h:00003)
 Khan, Huzoor H. (with Ram, Govind) On the degree of approximation. II. 90g:42005
 Koch, Per Erik Multivariate trigonometric B -splines. 90d:42004
 Kovachuk, I. R. Approximation of classes of (ψ, β) -differentiable functions by Steklov sums. (Russian) 90d:42005
 — Approximation of classes of (ψ, β) -differentiable functions by Rogosinski polynomials. (Russian) 90e:42003
 Kovachuk, I. R. Approximation of classes of periodic functions by analogues of Zygmund sums in the metric of C . (Russian) 90e:42004
 Kulik, A. N. An upper bound on the deviation of de la Vallée-Poussin sums on classes of differentiable functions. (Russian) 90f:42002
 Lee, Seng Luan *see* Goodman, T. N. T., 90j:42004
 Mazhar, S. M. On the degree of approximation of functions of generalized bounded variation. (Russian and Slovak summaries) 90b:42004
 Mohapatra, Ram Narayan Degree of approximation of Hölder continuous functions. 90i:42001
 — *see also* Chandra, Prem, 90k:42004
 Nema, H. K. *see* Qureshi, K., 90b:42005; 90e:42005 and 90m:42002
 Pachulia, N. L. *see* Stepanets, A. I., 90e:42009c
 Pandzhikidze, L. K. Convergence of multiple conjugate series in the metric of $L(R_n)$ and the integrability of conjugate functions of several variables. (Russian. English and Georgian summaries) (Not in MR)
 Pathak, Ashutosh (with Gupta, Vandana) Approximation of functions by the Nörlund means of a conjugate Fourier series. (Hindi. English summary) 90j:42005
 Petrov, I. I. *see* Darydov, E. G., (90d:34003)
 Petukhov, A. P. Dependence of the properties of the set of points of discontinuity of a function on the rate of its Hausdorff polynomial approximations. (Russian) 90j:42006
 Popov, Vasil Atanasov *see* Aleksandrov, Ljadmil G., 90e:42001
 Prestin, Jürgen Trigonometric approximation by Euler means. 90j:42007
 Pritula, Ya. G. (with Yatsimirskii, M. M.) Estimates for approximations of B^2 almost periodic functions. (Ukrainian. Russian summary) 90j:42008
 Qian, Fei Liang One-sided approximation of generalized Bernoulli functions by trigonometric polynomials. (Chinese. English summary) 90h:42002
 Qureshi, K. (with Nema, H. K.) Error bounds in the approximation of functions. 90h:42005
 — (with Nema, H. K.) A note on the degree of approximation of a periodic function f by almost triangular matrix means. 90e:42005
 — (with Nema, H. K.) On the degree of approximation of a periodic function f by almost Nörlund means of conjugate series. 90m:42002
 Raitala, R. A. Fourier-Chebyshev series of a class of functions. 90b:42006
 Ram, Govind *see* Khan, Huzoor H., 90g:42005
 Romanyuk, A. S. Estimates for best approximations and diameters of classes $L_{p,p}^r$ of periodic functions of several variables. (Russian) 90e:42006
 Rovba, E. A. Approximation of the function $|\sin x|$ by rational Fourier series. 90m:42003
 Runck, P. O. (with Auer, M.; Dvorschak, G.) Best constants for the simultaneous approximation of periodic functions by trigonometric polynomials. 90e:42007
 Rzaev, R. M. Local theorems for the approximation of periodic functions. (Russian) (Not in MR)
 Salvatori, Mauro Approximation of continuous functions by smoothed Fourier polynomials. (Italian summary) 90e:42008
 Seksenbaeva, A. K. *see* Imambaeva, B. D., (90h:00003)
 Shevaldia, V. T. Lower bounds on widths of classes of sourcewise representable functions. (Russian) 90e:42002
 Shervuk, I. A. Properties of Dryadyk's polynomial kernels on a segment. 90f:42003
 Shi, Xian Liang (with Chen, Quan De) Approximation in the mean to periodic functions by $[F, d_n]$. (Chinese) 90e:42005
 Shogunbekov, Sh. Sh. Approximation by Fourier sums of functions of small smoothness. (Russian. Tajiki summary) 90a:42004
 Smallov, E. S. (with Esmaganbetov, M. G.) Accuracy of estimates for the modulus of smoothness of positive order of a function in $L_p[0, 2\pi]$, $1 < p < \infty$. (Russian) 90f:42004
 Starovoirov, A. P. Rational approximation of functions that are differentiable in the Riemann-Liouville sense. (Russian) (see 90d:00046)
 Stepanets, A. I. ★ Классификация и приближение периодических функций. (Russian) [Classification and approximation of periodic functions] 90e:42007
 — Approximation by entire functions in the uniform metric. (Russian) 90e:42009a
 — (with Stepanets, N. I.) Approximation by entire functions in the mean. (Russian) 90e:42009b
 — (with Pachulia, N. L.) Estimates for strong mean deviations of Fourier operators in the uniform metric. (Russian) 90e:42009c
 — On the Lebesgue inequality on classes of (ψ, β) -differentiable functions. 90h:42003
 — (with Zhukina, E. I.) Inverse theorems for the approximation of (ψ, β) -differentiable functions. 90k:42007
 Stepanets, N. I. *see* Stepanets, A. I., 90e:42009b
 Sulaiman, W. T. On the degree of approximation of functions belonging to class $LIP(\alpha, p)$ by triangular matrix of its Fourier series. 90g:42006
 Szabados, J. *see* Erdélyi, T., 90k:42005
 Telyakovskii, S. A. Approximation of functions of given classes by Fourier sums. (Russian) (see 90i:00006)
 — Approximation by Fourier sums of functions of high smoothness. 90h:42004
 Temlyakov, V. N. Approximation of functions of several variables by trigonometric polynomials with harmonics of hyperbolic crosses. 90e:42003
 Trivedi, G. S. On the degree of approximation to a function by the Cesàro means of its Fourier series. (Hindi. English summary) 90g:42007
 Xing, Xiu Qin The approximation of periodic functions having variable smoothness by trigonometric polynomials. (Chinese. English summary) 90h:42005
 Xu, Li Zhi *see* Gao, Shan Sheng, 90d:42003
 Yatsimirskii, M. M. *see* Pritula, Ya. G., 90j:42008
 Ye, Nan Fa An improvement and generalization of D. Jackson's theorem. (Chinese. English summary) 90d:42008
 Zhuk, V. V. ★ Сильная аппроксимация периодических функций. (Russian) [Strong approximation of periodic functions] 90g:42008
 Zhukina, E. I. *see* Stepanets, A. I., 90k:42007

Items with secondary classifications in 42A10

- Babenko, A. G. The Jackson inequality in a space of square-summable functions. (Russian) (see 90i:00006)
 Bades, C. (with Bades, I.; Cottin, C.) A Korovkin-type theorem for generalizations of Boolean sum operators and approximation by trigonometric pseudopolynomials. 90f:41019
 Bades, I. *see* Bades, C.; et al., 90f:41019
 Barbin, A. V. Best approximation of periodic functions, analytic in a strip, with bounded imaginary part. (Russian) 90e:30036
 Baskakov, V. A. Approximation of different classes of functions by the same sequence of linear operators. (Russian) (see 90i:00006)
 Blatt, H.-P. (with Lorentz, G. G.) On a theorem of Kadec. 90d:41049
 Boyd, John Phillip Chebyshev domain truncation is inferior to Fourier domain truncation for solving problems on an infinite interval. 90e:55015
 Chandra, Prem On the degree of approximation of a class of functions by means of Fourier series. 90j:42014
 Cottin, C. *see* Bades, C.; et al., 90f:41019
 Darydov, O. V. Asymptotic behavior of best approximations of individual functions of classes $W^r H_m$ in the metric L_p . 90m:41038
 Delvos, Franz-Jürgen Mean approximation via interpolation by translation. 90j:42009
 Erdélyi, T. (with Szabados, J.) Bernstein type inequalities for a class of polynomials. 90e:42001
 Ermakov, A. I. An estimate for the derivative of algebraic polynomials and entire functions of a finite degree in S. N. Bernstein's class. (Russian) (see 90h:00005)
 Fang, Gen Sun One-sided N -widths for a class of periodic functions. 90g:41035
 — *see also* Sun, Yong Sheng; et al., (90a:41001)
 Gal, S. G. Approximation of real-valued functions by monotone sequences of polynomials. 90e:41008
 Huang, Da Ren *see* Sun, Yong Sheng; et al., (90a:41001)
 Jod, István On the order of approximation by Fejér means of Hermite-Fourier and Laguerre-Fourier series. 90d:41034

- Kogan, D. A. A comparison of summation processes with the Riesz process in Banach spaces. (Russian. English summary) **90g:42059**
- Kushpel, A. K. On an estimate for widths of sets in some function spaces. (Russian) **90c:42023**
- (Kuznetsov, Yuri Alekseevich) *see* Sendov, Bl., **90c:41001**
- Leski, Włodzimierz On the almost strong summability and convergence of Fourier series. **90c:42008**
- Lorentz, G. G. *see* Blatt, H.-P., **90d:41049**
- Mazhar, S. M. Approximation by Fourier Stieltjes series. **90d:42009**
- (McFaden, H. H.) *see* Temlyakov, V. N., **90c:00007**
- Mhaskar, H. N. The rate of convergence of expansions in Freud polynomials. **90g:41010**
- Miasse, A. G. (with Pourahmadi, Mohsen) Best approximations in $L^p(d\mu)$ and prediction problems of Szegő, Kolmogorov, Yaglom, and Nakazi. **90g:60042**
- Nitka-Styczeń, Krystyna *see* Styczeń, Krystyna, (Not in MR)
- Novikov, S. I. Best reconstruction from incomplete information of a class of periodic functions in L_2 . (Russian) **90d:41051**
- (Osolkov, K. L.) *see* Sendov, Bl., **90c:41001**
- Pachalla, N. L. Strong summability of the Fourier series of (ψ, β) -differentiable functions. **90c:42001**
- Pendina, T. P. On the saturation of algebraic linear positive operators associated with trigonometric kernels. (Russian) *see* **90m:00015**
- Popov, Vasil Atanasov *see* Sendov, Bl., **90c:41001**
- Poljakov, M. K. Jackson theorems for generalized moduli of smoothness. (Russian) **90c:41016**
- Pourahmadi, Mohsen *see* Miasse, A. G., **90g:60042**
- Rangachari, M. S. (with Settu, S. A.) On $F(a, q)$ transform of Fourier series. **90d:42010**
- Sendov, Bl. (with Popov, Vasil Atanasov) ★ Усредненные модули гладкости. (Russian) [Averaged moduli of smoothness] **90c:41001**
- Settu, S. A. *see* Rangachari, M. S., **90d:42010**
- Sikhov, M. B. Some embedding theorems. (Russian) **90c:46023**
- Stapanets, A. I. Approximation by Fourier operators of functions that are defined on the real axis. **90b:41037**
- Deviations of Fourier sums on classes of entire functions. **90c:42009**
- Simultaneous approximation of functions and their (ψ, β) -derivatives by Fourier sums. **90c:42011**
- Styczeń, Krystyna (with Nitka-Styczeń, Krystyna) Trigonometric approximation of optimal periodic control problems for systems with inertial controllers. (Not in MR)
- Trigonometric approximation of optimal periodic control problems with variable delays. **90c:49036**
- Sun, Yong Sheng (with Huang, Da Ren; Fang, Gen Sun) Extremal problems on some classes of differentiable functions. *see* **90a:41001**
- Szabados, J. *see* Erdélyi, T., **90c:42001**
- Temlyakov, V. N. Approximation of functions with bounded mixed derivative. **90c:00007**
- Uflyanov, P. L. Some results and problems from basis theory. (Russian) *see* **90c:00006**
- Some results and problems in basis theory. (Russian. English summary) **90c:42045**
- Yusuf, Kh. On best approximations of functions and on values of widths of classes of functions in L_2 . (Russian) **90d:41045**
- Zhatalbekova, M. A. A criterion for the embedding of the class $E^{(\psi, \dots, \psi)}(\lambda)$ into $C([-x, x]^m)$. (Russian) *see* **90h:00003**
- Zhantsev, Zh. Kh. On the order of approximation of functions by Zygmund means of Fourier series in a multiplicative system. (Russian) *see* **90h:00003**

42A15 Trigonometric interpolation

- Bazanski, Günter (with Delvos, Franz-Jürgen) A variant of the Krylov-Lanczos method for bivariate trigonometric interpolation. **90g:42009**
- Cavaretta, A. S., Jr. (with Selvaraj, C. R.) Convergence rates for lacunary trigonometric interpolation. **90m:42004**
- Delvos, Franz-Jürgen Mean approximation via interpolation by translation. **90g:42009**
- *see also* Bazanski, Günter, **90g:42009**
- Kumar, Suresh (with Ram, Babu) L^1 -convergence of a modified cosine sum. **90g:42010**
- Leski, Włodzimierz On the degrees of strong approximation by some trigonometric polynomials. **90d:42006**
- Postnikov, B. M. Uniformly converging trigonometric interpolation processes of summatory form. (Russian) *see* **90d:00009**
- Ram, Babu *see* Kumar, Suresh, **90g:42010**
- Selvaraj, C. R. *see* Cavaretta, A. S., Jr., **90m:42004**
- Sharma, Ambikeshwar Lacunary trigonometric interpolation on equidistant nodes (a survey). **90h:42006**
- (with Szabados, J.; Varga, Richard S.) 2-periodic lacunary trigonometric interpolation: the $(0, M)$ case. **90c:42010**
- Szabados, J. *see* Sharma, Ambikeshwar; et al., **90c:42010**
- Varga, Richard S. *see* Sharma, Ambikeshwar; et al., **90c:42010**

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- Charron, R. J. *see* Small, R. D., **90c:65042**
- Delarte, Philippe (with Genin, Yves; Kamp, Y.) Interpolation type problems in the class of positive trigonometric polynomials of fixed order. **90g:42016**
- Genin, Yves *see* Delarte, Philippe; et al., **90g:42016**
- Grigore, Gheorghe *see* Ichim, Ion, **90c:65018**
- Ichim, Ion (with Grigore, Gheorghe) Une formule de type Newton-Hermite pour le polynôme trigonométrique d'interpolation. Différences divisées trigonométriques. [A Newton-Hermite formula for the trigonometric interpolation polynomial. Trigonometric divided differences] **90c:65018**
- Kamp, Y. *see* Delarte, Philippe; et al., **90g:42016**
- Shekhtman, Boris On the norms of interpolating operators. **90c:41005**
- Small, R. D. (with Charron, R. J.) Continuous and discrete nonlinear approximations based on Fourier series. **90c:65042**
- Zee, E. O. Trigonometric (o, p, q, r) -interpolation over equidistant nodes. (Russian) *see* **90d:00009**

42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series

- Abdrasheva, G. An integral property of a function with transformed Fourier coefficients. (Russian) *see* **90h:00003**
- Belov, A. S. Coefficients of trigonometric cosine series with nonnegative partial sums. (Russian) **90m:42005**
- Berika, Muharem Č. Fourier coefficients of functions belonging to Besov classes. (Russian. English and Serbo-Croatian summaries) **90c:42005**
- Chanturiya, Z. A. Conditions for continuity of functions of generalized bounded variation. (Not in MR)
- De Souza, Geraldo Soares Fourier series and the maximal operator on the weighted special atom spaces. **90c:42004**
- Fang, Gen Sun *see* Sun, Yong Sheng; et al., **(90a:41001)**
- Fomin, G. A. Conditions for the integrability of trigonometric series. (Russian) *see* **90m:00015**
- Gelak, J. L. (with Siddiqi, R. N.) On the asymptotic behaviour of a class of trigonometric series. **90m:42006**
- Huang, Da Ren *see* Sun, Yong Sheng; et al., **(90a:41001)**
- Isaza, P. (with Waterman, Daniel) Fourier series with small gaps. **90c:42006**
- Jód, István On some problems raised in connection with eigenfunction expansions. **90c:42008**
- Khare, Satya Prakash (with Tripathi, Virendra Kumar) On the behaviour of Fourier coefficients. **90c:42005**
- (with Singh, Man) A study of the sequence of Fourier coefficients. **90c:42009**
- Konyashkov, A. A. The lowest sequence above which Fourier coefficients of a certain class do not exist. **90c:42007**
- Fourier coefficients. (Russian) **90c:42005**
- Körner, T. W. Universal trigonometric series with rapidly decreasing coefficients. **90c:42011**
- Lukashenko, S. Yu. Fourier coefficients. (Russian) *see* **90h:00003**
- (with Lukashenko, T. P.) The rate of growth of coefficients of universal series. (Russian) *see* **90m:00040**
- Lukashenko, T. P. *see* Lukashenko, S. Yu., **(90m:00040)**
- Oehring, Charles Spectral decay for definite kernels and functions. **90b:42010**
- Omsani, G. T. Topological characterization of some classes of continuous functions whose Fourier series converge uniformly. (Russian. English and Georgian summaries) **90c:42009**
- Patel, N. V. (with Shah, V. M.) On the order of Fourier coefficients in lacunary Fourier series. **90c:42006**
- Shaginyan, L. A. Representation of functions by everywhere summable trigonometric series. **90m:42007**
- Shah, V. M. *see* Patel, N. V., **90c:42006**
- Siddiqi, R. N. On sequence of Fourier coefficients of a function of the class W . (Spanish summary) **90c:42011**
- *see also* Gelak, J. L., **90m:42006**
- da Silva, Mannel R. Recursive construction of approximate expansions of functions in series of orthogonal polynomials. **90h:42008**
- Singh, Man *see* Khare, Satya Prakash, **90c:42009**
- Sun, Yong Sheng (with Huang, Da Ren; Fang, Gen Sun) Extremal problems on some classes of differentiable functions. *see* **90a:41001**
- Tripathi, Virendra Kumar *see* Khare, Satya Prakash, **90c:42005**
- Uflyanov, P. L. Classes of infinitely differentiable functions. (Not in MR)
- Waterman, Daniel *see* Isaza, P., **90c:42006**

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- Bekker, M. B. On continuation from a half-axis of a continuous positive definite generalized Toeplitz kernel. (Russian. English summary) **90h:47031**
- Bloom, Walter R. Majorising by Fourier transforms. **90m:43005**
- Dobi, J. Inclusion relations between the Banach spaces of absolutely and strongly convergent Fourier series. (Serbo-Croatian summary) **90g:42020**
- Gevorgyan, I. M. *see* Shamoyan, F. A., **90h:30063**
- Giroux, André *see* Newman, Donald J., **90h:30017**
- Guerfi, M. (with Maroni, Pascal) Sur les polynômes orthogonaux de la classe de Laguerre-Hahn affine. (English summary) [On affine Laguerre-Hahn orthogonal polynomials] **90d:33006**
- Holschneider, M. Wavelet analysis on the circle. **90m:42040**
- Ibraimkulov, A. M. Estimates for the moduli of smoothness of fractional order of functions in $L[0, 2\pi]$. (Russian) *see* **90h:00003**
- Kairies, Hans-Heinrich Ein System von Funktionalgleichungen vom verallgemeinerten Replikativitäts-Typ. [A system of functional equations of generalized replicativity type] **90h:39013**
- Kushpel, A. K. On an estimate for widths of sets in some function spaces. (Russian) **90c:42023**
- Maroni, Pascal *see* Guerfi, M., **90d:33006**
- Navot, I. An Euler-Maclaurin transformation of a slowly convergent series with an application to Fourier coefficient evaluation. **90a:40002**
- Nemzer, Dennis Periodic Bochnerians. **90h:44006**
- Newman, Donald J. (with Giroux, André) Properties on the unit circle of polynomials with unimodular coefficients. **90h:30017**
- Pachalla, N. L. Strong summability of the Fourier series of (ψ, β) -differentiable functions. **90c:42001**
- Preocup, Radu Fonctions convexes et fonctionnelles de forme simple. [Convex functions, and functionals of simple form] **90c:26020**
- Sala, Kenneth L. Transformations of the Jacobian amplitude function and its calculation via the arithmetic-geometric mean. **90g:33003**
- Shamoyan, F. A. (with Gevorgyan, I. M.) Characterization of the rate of decrease of Fourier coefficients of functions of bounded form and the sharpening of R. Salinas's theorem. (Russian. Armenian summary) **90h:30063**
- Sheng, Shu Yun Some properties of ABMV and ϕ ABMV functions. (Chinese) **90c:26016**

de Souza Pinto, J. Periodic Silva tempered ultradistributions. 90m:46071

42A20 Convergence of Fourier and trigonometric series

- Bloshanskii, I. L. On the existence of functions from L_p , $p \geq 1$, whose Fourier series converge to zero on a prescribed set and diverge unboundedly outside it. (Russian summary) 90j:42010
- Bourdon, Paul (with Shapiro, Joel H.; Sledd, William T.) Fourier series, mean Lipschitz spaces, and bounded mean oscillation. 90j:42011
- Chanturiya, Z. A. On a relation between the classes V_p and $V[p]$. (Russian. English and Georgian summaries) 90b:42012
- Chutro, T. N. *see* Stepanchuk, K. M., 90c:42008
- Grigoryan, M. G. Representation of measurable functions by simple and multiple series in Legendre polynomials. (Russian. English and Armenian summaries) 90c:42007
- Jurkat, Wolfgang B. (with Waterman, Daniel) Conjugate functions and the Bohr-Pál theorem. 90m:42008
- Kashin, B. S. (with Kosheleva, G. G.) An approach to "correction" theorems. 90d:42007
- Kazaryan, K. S. A sharp estimate for the measure of a divergence set for Fourier series in a class of uniformly bounded complete orthonormal systems. (Russian. Armenian summary) (Not in MR)
- Kheseladze, Sh. V. Divergence everywhere of Fourier series of functions in the class $L_p(L)$. (Russian. English summary) 90m:42009
- Konyagin, S. V. Limits of indeterminacy of trigonometric series. 90j:42012
- Kosheleva, G. G. *see* Kashin, B. S., 90d:42007
- Kumari, Suresh (with Ram, Babu) Convergence and integrability of certain trigonometric sums. 90j:42012
- *see also* Ram, Babu, 90m:42010
- Megrahyan, R. M. On a characteristic of random matrices connected with unconditional convergence almost everywhere. (Russian summary) 90c:42011
- Móricz, F. On A-strong convergence of numerical sequences and Fourier series. 90k:42010
- On the integrability and L^1 -convergence of sine series. 90c:42012
- Muravev, É. B. Summability methods as ways of improving the convergence of series. (Russian) 90c:42007
- Muskhogyan, G. M. Coefficients of a rearranged series in a trigonometric system and in bases of the space $C[0, 1]$ that converges everywhere to a function in L_p , $1 \leq p < 2$. (Russian. English and Armenian summaries) 90b:42009
- Nakhman, A. D. Exponential methods for summation of Fourier series. (Russian) (see 90d:00009)
- Osolkov, K. I. Continuous functions with polynomial spectra. (Russian) 90b:42013
- Ram, Babu (with Kumari, Suresh) On L^1 -convergence of certain trigonometric sums. 90m:42010
- *see also* Kumari, Suresh, 90j:42012
- Shapiro, Joel H. *see* Bourdon, Paul; et al., 90j:42011
- Sharma, K. M. *see* Singh, Niranjana, 90j:42013
- Sheng, Shu Yun A Tauberian theorem concerning L^1 convergence of Fourier series. (Chinese) 90b:42014
- Siddiqi, R. N. On rate of convergence of the conjugate Fourier series of a function of Wiener's class. 90b:42010
- On convergence of the conjugate Fourier series of a function of Wiener's class. 90c:42006
- Singh, Niranjana (with Sharma, K. M.) L^1 -convergence of modified cosine sums with generalized quasiconvex coefficients. 90j:42013
- Sledd, William T. *see* Bourdon, Paul; et al., 90j:42011
- Stepanchuk, K. M. (with Chutro, T. N.) Factors of convergence for dual infinite products. (Russian) 90b:42008
- Stepanets, A. I. Fourier sums: new results and unsolved problems. 90c:42008
- Deviations of Fourier sums on classes of entire functions. 90c:42009
- Simultaneous approximation of functions and their (ψ, β) -derivatives by Fourier sums. 90c:42011
- Waterman, Daniel *see* Jurkat, Wolfgang B., 90m:42008
- Wernuth, Edgar M. E. A generalization of Lebesgue's convergence criterion for Fourier series. 90c:42012
- Zaderet, P. V. Convergence of Fourier series in the mean. 90j:42013

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- Akrapetyan, G. M. Boundary values of functions that are generated by incomplete systems of rational fractions with fixed poles. 90b:30082
- De Souza, Geraldo Soares Fourier series and the maximal operator on the weighted special atom spaces. 90c:42004
- Kärner, T. W. Universal trigonometric series with rapidly decreasing coefficients. 90j:42011
- Kumari, Suresh (with Ram, Babu) L^1 -convergence of a modified cosine sum. 90j:42010
- Leski, Włodzimierz On the almost strong summability and convergence of Fourier series. 90c:42008
- Lukashenko, S. Yu. (with Lukashenko, T. P.) The rate of growth of coefficients of universal series. (Russian) (see 90m:00040)
- Lukashenko, T. P. *see* Lukashenko, S. Yu., (90m:00040)
- Okayama, Yasuo On summability of the conjugate series of Fourier series at a point. 90j:42016
- Onian, G. T. Topological characterization of some classes of continuous functions whose Fourier series converge uniformly. (Russian. English and Georgian summaries) 90c:42009
- Preis, D. (with Thomson, B. S.) The approximate symmetric integral. 90m:26018
- Ram, Babu *see* Kumari, Suresh, 90j:42010
- Rashwan, R. A. On the absolute convergence of lacunary vector valued Fourier coefficients series. 90b:42019
- Rochberg, Richard (with Semmes, Stephen) Nearly weakly orthonormal sequences, singular value estimates, and Calderon-Zygmund operators. 90k:47047
- Rutkowski, Leszek Application of multiple Fourier series to identification of multivariable nonstationary systems. 90i:93131

- Ryzantseva, V. V. Convergence of trigonometric random series in norms of Orlicz spaces. 90j:60053
- Semmes, Stephen *see* Rochberg, Richard, 90k:47047
- Shaginyan, L. A. Representation of functions by everywhere summable trigonometric series. 90m:42007
- Shisha, Oved Proof of power series and Laurent expansions of complex differentiable functions without use of Cauchy's integral formula or Cauchy's integral theorem. 90m:30002a
- Erratum: "Proof of power series and Laurent expansions of complex differentiable functions without use of Cauchy's integral formula or Cauchy's integral theorem". 90m:30002b
- Shloma, L. I. Discretization of expansions in a trigonometric system. (Russian. English summary) 90j:65184
- Thomson, B. S. *see* Preis, D., 90m:26018
- Walter, Gilbert G. Abel summability for a distribution sampling theorem. 90b:42016

42A24 Summability of Fourier and trigonometric series

- Agrawal, S. N. *see* Varma, Sushama K., 90c:42016 and Varma, S. K., 90j:42018
- Baskakov, A. V. Summation of subsequences of partial sums of Fourier series of continuous and integrable functions. (Russian) (see 90i:00006)
- Brj, I. N. (with Joó, István) On a theorem of L. Leindler. 90b:42011
- Chandra, Prem On the degree of approximation of a class of functions by means of Fourier series. 90j:42014
- Das, Gokulananda (with Panda, K. C.) On summability of Fourier and allied series by $(D_{p,q})$ method. 90c:42013
- (with Pujari, S. N.) Quasi-Cesàro summability of Fourier series. 90b:42012
- Dzhanelidze, V. A. Summation of Fourier-Laplace series by linear methods. (Russian. English and Georgian summaries) 90j:42015
- Gavrilyuk, V. T. Saturation classes for linear methods of summation of Fourier series. 90c:42014
- Gorodetskii, V. V. Summation of formal Fourier series by methods of Gauss-Weierstrass type. 90m:42011
- Gupta, Rajendra Prasad (with Varma, Sushama K.) On $[S, a_n]$ summability of Fourier series. 90j:42014
- Joó, István *see* Brj, I. N., 90b:42011
- Kalpna (with Kathal, P. D.) On the Euler summability of Fourier series. 90d:42008
- Kathal, P. D. *see* Kalpna, 90d:42008
- Khare, Satya Prakash (with Tripathi, Virendra Kumar) Summability of derived Fourier series and its conjugate series. 90c:42009
- Leski, Włodzimierz (with Taberski, Roman) On the rate of pointwise (H, q) -summability of Fourier series. 90k:42013
- Mazhar, S. M. Approximation by Fourier Stieltjes series. 90d:42009
- On (J, p_n) summability of Fourier series. 90b:42013a
- Corrigendum: "On (J, p_n) summability of Fourier series". 90b:42013b
- Mittal, madan Lal On the $[T] \cdot C_1$ summability of a sequence of Fourier coefficients. 90c:42015
- Natanson, G. I. An estimate for Lebesgue constants of de la Vallée-Poussin sums. (Russian) (see 90b:00005)
- Okayama, Yasuo On summability of the conjugate series of Fourier series at a point. 90j:42016
- Panda, K. C. *see* Das, Gokulananda, 90c:42013
- Pujari, S. N. *see* Das, Gokulananda, 90b:42012
- Qian, Wei Chang Summation of trigonometric series by Fourier transforms. 90b:42014
- Qureshi, K. Error bounds in the approximation of functions. 90b:42015
- Rangachari, M. S. (with Settu, S. A.) On $F(a, q)$ transform of Fourier series. 90d:42010
- Semenchuk, N. P. $(C, 1)$ -summability and convergence of a class of trigonometric integrals. (Russian. English summary) 90j:42017
- Settu, S. A. *see* Rangachari, M. S., 90d:42010
- Taberski, Roman *see* Leski, Włodzimierz, 90k:42013
- Tripathi, Virendra Kumar *see* Khare, Satya Prakash, 90c:42009
- Varma, Sushama K. (with Agrawal, S. N.) On the Hausdorff summability of Fourier series. 90c:42016
- *see also* Gupta, Rajendra Prasad, 90j:42014
- Varma, S. K. (with Agrawal, S. N.) On (J, p_n) summability of Fourier series. (Hindi. English summary) 90j:42018
- Volkov, A. V. A positive method for the summation of Fourier series that is best with respect to order. (Russian) (see 90b:00005)
- Walter, Gilbert G. Abel summability for a distribution sampling theorem. 90b:42016

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- Andrienko, V. A. Approximation by Riesz means of negative order. (Russian) (see 90i:00006)
- Summability of double orthogonal series by Riesz methods. (Russian. English summary) 90j:42042
- Chandra, Prem Functions in L_p -space and their approximations. (Serbo-Croatian summary) 90c:42002
- Connett, William C. (with Schwartz, Alan L.) Product formulas, hypergroups, and the Jacobi polynomials. 90b:33022
- Gupta, Vandana *see* Pathak, Ashutosh, 90j:42005
- Karlies, Hans-Heinrich Ein System von Funktionalgleichungen vom verallgemeinerten Replikativitäts-Typ. [A system of functional equations of generalized replicativity type] 90b:39013
- Kashin, B. S. (with Kosheleva, G. G.) An approach to "correction" theorems. 90d:42007
- Khan, Huzoor H. (with Ram, Govind) On the degree of approximation. II. 90j:42005
- Khare, Satya Prakash (with Tripathi, Virendra Kumar) On the behaviour of Fourier coefficients. 90c:42005
- (with Singh, Man) A study of the sequence of Fourier coefficients. 90b:42009
- Konyukhov, A. A. Fourier coefficients. (Russian) 90i:42005
- Kosheleva, G. G. *see* Kashin, B. S., 90d:42007

- Kovačchuk, I. R. Approximation of classes of (ψ, β) -differentiable functions by Steklov sums. (Russian) 90b:42005
- Kalik, A. N. An upper bound on the deviation of de la Vallée-Poussin sums on classes of differentiable functions. (Russian) 90b:42002
- Kuttner, B. (with Rhoades, B. E.) Absolute Nörlund matrix summability of Fourier series based on inclusion theorems. 90b:42007
- Mohapatra, Ram Narayan Degree of approximation of Hölder continuous functions. 90b:42001
- Mérics, F. On the integrability and L^1 -convergence of sine series. 90b:42012
- Nema, H. K. see Qureshi, K., 90b:42005
- Pachulia, N. L. Strong summability of the Fourier series of (ψ, β) -differentiable functions. 90b:42001
- see also Stepanets, A. I., 90b:42009c
- Pandey, B. N. (with Tripathi, L. M.) A study of Legendre series by uniform Nörlund summability method. 90b:42054
- Pathak, Ashutosh (with Gupta, Vandana) Approximation of functions by the Nörlund means of a conjugate Fourier series. (Hindi. English summary) 90b:42005
- Qureshi, K. (with Nema, H. K.) A note on the degree of approximation of a periodic function f by almost triangular matrix means. 90b:42005
- Ram, Govind see Khan, Huzoor H., 90b:42005
- Rhoades, B. E. see Kuttner, B., 90b:42007
- Schwartz, Alan L. see Connert, William C., 90b:33022
- Singh, Man see Khare, Satya Prakash, 90b:42009
- Skopina, M. A. The localization principle for Marcinkiewicz sums in the two-dimensional case. 90b:42011
- Sprung, Karl-Eugen On the monotonicity of saturation orders of saturated matrix methods. 90b:41050
- Stepanets, A. I. ★ Классификация и приближение периодических функций. (Russian) [Classification and approximation of periodic functions] 90b:42007
- (with Pachulia, N. L.) Estimates for strong mean deviations of Fourier operators in the uniform metric. (Russian) 90b:42009c
- Fourier sums: new results and unsolved problems. 90b:42008
- Tripathi, L. M. see Pandey, B. N., 90b:42054
- Tripathi, Virendra Kumar see Khare, Satya Prakash, 90b:42005

42A28 Absolute convergence, absolute summability

- Böttner, L. G. Absolute summability of Fourier integrals with factors by the G. F. Voronoi method. (Russian) 90b:42019
- Chan Min' Absolute convergence of series of Fourier coefficients. 90b:42017
- Dobi, J. Inclusion relations between the Banach spaces of absolutely and strongly convergent Fourier series. (Serbo-Croatian summary) 90b:42020
- Farfan, G. D. see Kovačchuk, B. V., 90b:42022
- Hotta, G. C. (with Padhi, T. C.) A note on $[N, p_1]$ summability of an associated conjugate series of a Fourier series. (Not in MR)
- Jena, S. C. (with Swamy, N. N.) Absolute summability of the conjugate series of a Fourier series. 90b:42018
- (with Padhi, Padmini) Absolute matrix summability of a Fourier series. (Not in MR)
- (with Padhi, Padmini) Absolute matrix summability of the allied series of a Fourier series. 90b:42017
- see also Mohapatra, U. K.; et al., (Not in MR)
- Kanno, Kōsei Absolute Riesz summability factors of Fourier series. III. 90b:42021
- Kovačchuk, B. V. Absolute convergence of Fourier series of S^p -almost periodic matrices. (Ukrainian. Russian summary) (Not in MR)
- (with Farfan, G. D.) Sufficient conditions for absolute convergence of Fourier series of some classes of S^p -almost periodic matrices. (Ukrainian. Russian summary) 90b:42022
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- Mohapatra, U. K. (with Jena, S. C.; Padhi, Padmini) A note on local property of absolute matrix summability of a Fourier series. (Not in MR)
- Musiela, Helena On strong Euler absolute p -summability a.e. of orthonormal series. 90b:42018
- Novikov, I. Ya. (with Rodin, V. A.) Characterization of points of p -strong summability of trigonometric series, $p \geq 2$. 90b:42015
- Novikova, N. S. Absolute matrix summability of degree p of Fourier series. (Russian) 90b:42010
- Pachulia, N. L. (with Stepanets, A. I.) Strong summability of Fourier series in classes of (ψ, β) -differentiable functions. (Russian) 90b:42011
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- Polovina, N. T. Strong summability in degree $p \geq 1$ of Fourier series by triangular matrix methods. (Russian) 90b:42012
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- Rhoades, B. E. see Kuttner, B., 90b:42007
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- Samal, M. On the absolute N_p -summability of some series associated with Fourier series. 90b:42019
- Shah, V. M. see Patadia, J. R., 90b:42011
- Stepanets, A. I. see Pachulia, N. L., 90b:42011
- Sulaiman, W. T. On $[N, p, \lambda]$ summability factors of Fourier series. 90b:42020
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- Volkova, N. I. (with Zaezhal, M. L.) Absolute summability of Fourier series with a factor by the Voronoi-Nörlund method. (Russian) 90b:42013
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- Zaezhal, M. L. see Volkova, N. I., 90b:42013
- Zhukina, E. I. Inverse theorems. (Russian) 90b:42020
- Items with secondary classifications in 42A28
- Bass, Jean Limites de moyennes. [Mean value limits] 90b:42019
- Giroux, André see Newman, Donald J., 90b:30017
- Newman, Donald J. (with Giroux, André) Properties on the unit circle of polynomials with unimodular coefficients. 90b:30017
- Serov, V. S. Interpolation of Besov classes and absolute convergence of Fourier series. (Russian) 90b:46028
- Sulaiman, W. T. On absolute Nörlund summability of Laplace series. 90b:42056
- Szalay, I. On the strong Cesàro summability of double orthogonal series. 90b:40013

42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)

- Brown, Gavin (with Wilson, David Charles) A class of positive trigonometric sums. II. 90b:42024
- Delaite, Philippe (with Genin, Yves; Kamp, Y.) Interpolation type problems in the class of positive trigonometric polynomials of fixed order. 90b:42016
- Gaidak, S. I. A study of the properties of sums of a class of trigonometric series. (Russian. English summary) 90b:42021
- Genin, Yves see Delaite, Philippe; et al., 90b:42016
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- Katsoprinakis, E. S. On a theorem of Marcinkiewicz and Zygmund for Taylor series. 90b:42014
- Telyakovskii, S. A. Integrability of a monotone majorant of a sum of a trigonometric series with quasiconvex coefficients. 90b:42014
- Wilson, David Charles see Brown, Gavin, 90b:42024
- Items with secondary classifications in 42A32
- Körner, T. W. Universal trigonometric series with rapidly decreasing coefficients. 90b:42011
- Kumari, Suresh see Ram, Babu, 90b:42010
- Mérics, F. On the integrability and L^1 -convergence of sine series. 90b:42012
- On double cosine, sine, and Walsh series with monotone coefficients. 90b:42020
- Ram, Babu (with Kumari, Suresh) On L^1 -convergence of certain trigonometric sums. 90b:42010
- Sheng, Shu Yun A Tauberian theorem concerning L^1 convergence of Fourier series. (Chinese) 90b:42014

42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

- Apetova, T. V. Strong summability of Fourier integrals. (Russian) 90b:42021
- Anslander, L. (with Grünbaum, F. A.) The Fourier transform and the discrete Fourier transform. 90b:42012
- Barceló, Juan A. (with Córdoba, A.) Band-limited functions: L^p -convergence. 90b:42017
- Benedetto, J. J. (with Heinig, H. P.; Johnson, Raymond L.) Fourier inequalities with A_p -weights. 90b:42015
- Burenkov, V. I. Estimates for Fourier transforms and convolutions in Nikoľ'skii-Besov spaces. (Russian) 90b:42016
- Burzyk, J. A Paley-Wiener type theorem for regular operators of bounded support. 90b:42013
- Chen, Yong Zhao (with Lau, Ka Sing) Wiener transformation on functions with bounded averages. 90b:42018
- Chu, Fu Lai (with Huang, Chi Fang) On the calculation of the Fourier transform of a polygonal shape function. 90b:42010
- Córdoba, A. see Barceló, Juan A., 90b:42017
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- Heinig, H. P. see Benedetto, J. J.; et al., 90b:42015
- Huang, Chi Fang see Chu, Fu Lai, 90b:42010
- Johnson, Raymond L. see Benedetto, J. J.; et al., 90b:42015
- Kahane, Jean-Pierre see Wiener, Norbert, 90b:42022
- Kerr, Fiona H. Namias' fractional Fourier transforms on L^2 and applications to differential equations. 90b:42015
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- Kuo, Chia Nan Interpolated Fourier transforms. 90b:42011
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- Lenyak, M. P. An integral Fourier transform on a piecewise-inhomogeneous half-line. (Russian) 90b:42025
- Hybrid integral transforms (Bessel-Fourier-Bessel). (Russian) 90b:42014
- McBride, A. C. (with Kerr, Fiona H.) On Namias' fractional Fourier transforms. 90b:42022
- Musiela, Anna Some estimations for Fourier transforms. 90b:42026
- Petrosyan, A. A. Estimates for spectra of discrete Fourier transforms. (Russian. Armenian summary) 90b:42015
- Sinha, Sunil Kumar On two new characterizations of the Fourier transform for distributions. 90b:42019
- Ugrin-Sparac, D. Fourier transform of the function $(x-a)^{-\alpha} \exp(i\lambda x^2)$. 90b:42012
- Wiener, Norbert ★ The Fourier integral and certain of its applications. 90b:42022
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- Arias de Reyna Martínez, Juan On the theorem of Frullani. 90b:26008
- Baker, John A. Functional equations, tempered distributions and Fourier transforms. 90b:39006
- Bykovskii, V. A. Discrete Fourier transform and cyclic convolution on integral lattices. 90c:11077
- Claassen, Michael Fast Fourier transforms for metabelian groups. 90c:94002
- Courdas, G. (with Varga, Richard S.) Fourier transforms and the Hermite-Biehler theorem. 90b:30005
- Cunningham, Michael John see Oakley, John Peter; et al., 90b:42050
- Daly, James E. Factorization of Hardy spaces on local fields. 90a:46049
- Demenko, V. N. On p -Helson sets in \mathbb{R}^n . (Russian summary) 90b:43009
- Dewaney, Anthony J. The limited-view problem in diffraction tomography. 90b:78018
- Díaz Bejarano, José (with Martín Sánchez, A.) Generalized Fourier transforms for nonlinear systems. 90f:34012
- Fili, James Allen The Radon transform on \mathbb{Z}_n . 90m:44006
- Gordon, E. I. Nonstandard finite-dimensional analogues of operators in $L_1(\mathbb{R}^n)$. 90a:47054
- Jenkins, W. Kenneth see Marshall, Daniel F.; et al., 90c:94007
- Kamada, Masaru (with Torachi, Kazuo; Mori, Ryoichi) Periodic spline orthonormal bases. 90c:41017
- Kawai, Toru A nonstandard representation of Fourier transforms of continuous functions. 90m:43015
- Kolesárová, Anna Fourier transforms of vector-valued measures on certain compact semigroups. (see 90a:90026)
- Komarov, V. N. (with Lovetskii, K. P.; Mikulich, A. V.; Sevast'yanov, L. A.) A consistent stable solution of problems of the direct and the inverse Fourier transform. (Russian) (see 90c:00008)
- Little, Graham see Oakley, John Peter; et al., 90b:42050
- Lovetskii, K. P. see Komarov, V. N.; et al., (90a:90008)
- Lyubarskii, Ya. I. The Paley-Wiener theorem for convex sets. 90b:30029
- Marshall, Daniel F. (with Jenkins, W. Kenneth; Murphy, J. J.) The use of orthogonal transforms for improving performance of adaptive filters. 90c:94007
- Martín Sánchez, A. see Díaz Bejarano, José, 90f:34012
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- Moses, H. E. (with Prosser, R. T.) A refinement of the Radon transform and its inverse. 90f:44003
- Muller, M. U. A space, conjugate to $E^p(\mathbb{R})$ ($1 \leq p < \infty$), and a simple generalization of the Wiener-Paley theorem. (Russian) (see 90a:41001)
- Murphy, J. J. see Marshall, Daniel F.; et al., 90c:94007
- Oakley, John Peter (with Cunningham, Michael John; Little, Graham) A Fourier-domain formula for the least-squares projection of a function onto a repetitive basis in N -dimensional space. 90b:42050
- Prosser, R. T. see Moses, H. E., 90f:44003
- Ram, Amos A necessary and sufficient condition for the linear independence of the integer translates of a compactly supported distribution. 90g:41019
- Rosenblatt, Joseph Determining a distribution from the modulus of its Fourier transform. 90b:46073
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- Shevchik, V. V. On the Fourier transformation as an operator of dense embedding. (Russian) 90j:46037
- Sun, Qi Some results in the application of the number theory to digital signal processing and public-key systems. 90c:11193
- Timotin, Dan C_p -estimates for certain kernels on local fields. 90a:42010
- Tiwari, A. K. On a distributional generalized Laplace transform. 90b:44002
- Torachi, Kazuo see Kamada, Masaru; et al., 90c:41017
- Varga, Richard S. see Courdas, G., 90b:30005

42A45 Multipliers

- Cowling, Michael (with Fendler, Gero; Fournier, John J. F.) Variants of Littlewood-Paley theory. 90m:42016
- Fendler, Gero see Cowling, Michael; et al., 90m:42016
- Fournier, John J. F. see Cowling, Michael; et al., 90m:42016
- Johnson, Raymond L. (with Neugebauer, C. J.) Homeomorphisms preserving A_p . 90d:42013
- Kushpel, A. K. On an estimate for widths of sets in some function spaces. (Russian) 90c:42023
- Lippus, J. On the preservation of classes of functions. (Russian and Estonian summaries) 90d:42014
- Lu, Shan Zhen Decomposition of kernel and maximal generalized Bochner-Riesz means. (Chinese summary) 90b:42016
- Neugebauer, C. J. see Johnson, Raymond L., 90d:42013
- Patel, N. V. (with Shah, V. M.) On the order of Fourier coefficients of a lacunary Fourier series. 90j:42027
- Shah, V. M. see Patel, N. V., 90j:42027
- Stepanov, V. D. Multipliers of Fourier integrals generated by characteristic functions of sets of the real axis. 90b:42017
- Trigub, R. M. Multipliers of Fourier series and approximation of functions by polynomials in the spaces C and L . 90j:42028

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- Betancor, Jorge J. On the boundedness and the range of the Lommel-Maitland transformation. 90j:44005
- Hare, Kathryn E. (with Klemes, Ivo) Properties of Littlewood-Paley sets. 90b:42018
- Karayannakis, Dimitri Spectral decompositions of one-parameter groups of isometries on Hardy spaces. 90c:47068
- Klemes, Ivo see Hare, Kathryn E., 90b:42018
- Shekhtman, Boris On a problem of G. G. Lorentz regarding the norms of Fourier projections. 90b:42004

- Stolov, Feo Multipliers of integrals of Cauchy-Lebesgue type in domains with a rectifiable boundary. (Russian. English summary) 90b:30067

42A50 Conjugate functions, conjugate series, singular integrals

- Abdullayev, A. K. On an estimate for a singular integral. (Russian) 90b:42009
- Bloom, Steven Pointwise multipliers of weighted BMO spaces. 90c:42013
- Colfman, R. (with Jones, Peter Wilcox; Semmes, Stephen) Two elementary proofs of the L^2 boundedness of Cauchy integrals on Lipschitz curves. 90b:42017
- Jones, Peter Wilcox see Colfman, R.; et al., 90b:42017
- Kashevskii, V. V. Limit formulas for a singular integral. (Russian) 90c:42014
- Kokilashvili, V. M. Fractional integrals on curves. 90c:42015
- Lukashenko, T. P. (with Ryazanova, M. P.) Inequalities of weak type for the Hilbert operator. (Russian) (see 90b:00003)
- Mekler, A. A. A weakening of Muckenhoupt's A_1 -condition for positive nonincreasing functions. (Russian) 90b:42018
- Osborne, M. Scott (with Warner, Garth) On the Dini calculus. II. 90b:42018
- Ryazanova, M. P. see Lukashenko, T. P., (90b:00003)
- Semmes, Stephen see Colfman, R.; et al., 90b:42017
- Singh, K. N. Determination of the jump of a function by its conjugate of a Fourier series. (Not in MR)
- Soria, Fernando On an extrapolation theorem of Carleson-Sjölin with applications to a.e. convergence of Fourier series. 90b:42019
- Warner, Garth see Osborne, M. Scott, 90b:42018
- Wegert, E. (with von Wolfersdorf, L.) A uniform inequality for the finite Hilbert transform in weighted Lebesgue spaces. 90c:42024
- Wik, Ingemar On Muckenhoupt's classes of weight functions. 90j:42029
- von Wolfersdorf, L. see Wegert, E., 90c:42024
- Yoo, Zhong A new necessary and sufficient condition for L^2 boundedness of singular integral operators. (Chinese. English summary) 90c:42025

Items with secondary classifications in 42A50

- Alegría, Pedro On the Adamjan-Arov-Krein and Arocena parametrizations: a constructive and generalized version. (Spanish summary) 90a:47017
- Cotlar, Mischa (with Sadosky, Cora) Generalized Bochner theorem in algebraic scattering systems. 90b:47006
- Jena, S. C. (with Swamy, N. N.) Absolute summability of the conjugate series of a Fourier series. 90b:42018
- Jurkat, Wolfgang B. (with Waterman, Daniel) Conjugate functions and the Bohr-Pál theorem. 90m:42008
- Korenblum, Boris A sharper form of a theorem of Kolmogorov. 90b:30032
- Mazhar, S. M. Approximation by Fourier Stieltjes series. 90d:42009
- Noell, Alan V. (with Wolff, Thomas H.) On peak sets for $Lip \alpha$ classes. 90b:30062
- Sadosky, Cora see Cotlar, Mischa, 90b:47006
- Sidiqi, R. N. On rate of convergence of the conjugate Fourier series of a function of Wiener's class. 90b:42010
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- Slavin, Charles P. Properties of power series coefficients of $H^2(\Pi_+)$ functions. 90b:30068
- Swamy, N. N. see Jena, S. C., 90b:42018
- Waterman, Daniel see Jurkat, Wolfgang B., 90m:42008
- Wolff, Thomas H. see Noell, Alan V., 90b:30062

42A55 Lacunary series of trigonometric and other functions; Riesz products

- Belov, A. S. On some local properties of the sum of lacunary trigonometric series. (Russian summary) 90c:42026
- Kilmer, S. J. (with Saeki, Sadahiro) On Riesz product measures; mutual absolute continuity and singularity. (French summary) 90a:42006
- Equivalence of Riesz products. 90j:42030
- Levinov, S. V. Weakly lacunary trigonometric series. 90a:42007
- Patadia, J. R. Lacunary Fourier series on certain groups. 90m:42017
- Saeki, Sadahiro see Kilmer, S. J., 90a:42006

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- Berkes, István On almost i.i.d. subsequences of the trigonometric system. 90b:60058
- Hare, Kathryn E. Strict-2-associatedness for thin sets. 90c:43004
- Isaza, P. (with Waterman, Daniel) Fourier series with small gaps. 90c:42006
- Lai, Qin Sheng Weighted BMO on spaces of homogeneous type. (Chinese) 90b:46065
- Lyons, Russell Singular measures with spectral gaps. 90b:43008
- Moran, William Ergodic measures for the irrational rotation on the circle. 90f:22013
- Patadia, J. R. (with Shah, V. M.) On the absolute convergence of lacunary Fourier series. 90d:42011
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- Shah, V. M. see Patadia, J. R., 90d:42011 and Patel, N. V., 90b:42006
- Sharma, Ambikeshwar Lacunary trigonometric interpolation on equidistant nodes (a survey). 90b:42006
- Waterman, Daniel see Isaza, P., 90c:42006

42A61 Probabilistic methods

- Garyga, Hanna (with Hulanicki, Andrzej) Growth of the norms of products of randomly dilated functions from $A(T)$. 90b:42023
- Hulanicki, Andrzej see Garyga, Hanna, 90b:42023

Items with secondary classifications in 42A61

- Kawata, Tatsuo Lipschitz classes and Fourier series of stochastic processes. 90a:60072
- Levinov, S. V. Weakly lacunary trigonometric series. 90a:42007
- Li, Jia Liang Random nonharmonic Fourier series. (Chinese. English summary) 90b:42045

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Mishra, M. N. *see* Nayak, C.; et al., 90j:60051

Nayak, C. (with Pattanayak, S.; Mishra, M. N.) Random Fourier-Stieltjes series associated with Lipschitz class of stochastic processes. 90j:60051

Orsingher, Enzo On the maximum of Gaussian Fourier sine series connected with random vibrations. 90h:35140

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Ryzantseva, V. V. Convergence of trigonometric random series in norms of Orlicz spaces. 90j:60053

42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

Aizenberg, L. A. Uniqueness sets for Wiener classes. An analogue of the Kotel'nikov theorem for nonuniform reference frames. Inversion of the Radon transform from incomplete data. (Russian. Serbo-Croatian summary) (see 90j:30001)

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Dougherty, R. (with Kechris, Alexander S.) Hausdorff measures and sets of uniqueness for trigonometric series. 90g:42030

Geversky, G. G. On coefficients of null-series and on sets of uniqueness of trigonometric and Walsh systems. (Russian summary) 90c:42017

— Trigonometric integrals that are integrable by the Riemann method. (Russian) 90i:42017

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— *see also* Dougherty, R., 90g:42030

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— Singular measures with spectral gaps. 90b:43008

Skopina, M. A. The localization principle for Marcinkiewicz sums in the two-dimensional case. 90f:42011

42A65 Completeness of sets of functions

Lyubarskii, Ya. I. Completeness and minimality of a Rayleigh system. (Russian) 90c:42018

— Completeness and minimality of systems of functions of the form $\{a(t)\varphi^n(t) - b(t)\varphi^n(t)\}$. (Russian) 90j:42032

Mustafin, M. A. The Riesz basis of a system of sines. (Russian) 90k:42020

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Items with secondary classifications in 42A65

Bilalov, B. T. The basis property of some systems of functions. (Russian) 90b:41030

Ufyanov, F. L. Some results and problems from basis theory. (Russian) (see 90i:00006)

42A70 Trigonometric moment problems

Jones, William B. (with Njåstad, Olav; Thron, W. J.) Moment theory, orthogonal polynomials, quadrature, and continued fractions associated with the unit circle. 90c:42027

Njåstad, Olav *see* Jones, William B.; et al., 90c:42027

Stanoimir, D. An entire function approach to harmonic synthesis. I. General results.

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— An entire function approach to harmonic synthesis. II. Removable poles located at $s = 0$. 90d:42015b

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Items with secondary classifications in 42A70

Chandler, J. D., Jr. Moment problems for compact sets. 90c:44007

Delsarte, Philippe (with Genin, Yves; Kamp, Y.) Interpolation type problems in the class of positive trigonometric polynomials of fixed order. 90g:42016

Genin, Yves *see* Delsarte, Philippe; et al., 90g:42016

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Kamp, Y. *see* Delsarte, Philippe; et al., 90g:42016

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42A75 Classical almost periodic functions, mean periodic functions [see also 43A60]

Bass, Jean Limites de moyennes. [Mean value limits] 90c:42019

Chen, Yong Zhao (with Lau, Ka Sing) Harmonic analysis on functions with bounded means. 90i:42018

Lau, Ka Sing *see* Chen, Yong Zhao, 90i:42018

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Nasirli, N. B. A compactness criterion for a class of almost periodic Besicovitch functions. (Russian) (see 90d:00046)

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Items with secondary classifications in 42A75

Biot, Joël Lagrange multipliers in variational problems in mean. 90a:49033

Farlon, Z. D. *see* Kovalchuk, B. V., 90j:42022

Kovalchuk, B. V. (with Farlon, Z. D.) Sufficient conditions for absolute convergence of Fourier series of some classes of S' -almost periodic matrices. (Ukrainian. Russian summary) 90j:42022

Sari, Tewfik Fonctions presque-périodiques. [Almost periodic functions] (see 90j:03116)

Spitkovskii, I. M. Factorization of almost-periodic matrix functions. 90i:47033

Weit, Yitzhak An asymptotic characterization of harmonic functions. 90d:31012

42A82 Positive definite functions

Zhang, Jian A necessary and sufficient condition for a nonnegative definite function to be regular. (Chinese. English summary) 90b:42024

Items with secondary classifications in 42A82

Bekker, M. B. An integral representation of Hermitian-positive matrix kernels of a special structure. 90f:47022

Dym, H. \star J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. 90g:47003

42A85 Convolution, factorization

Borichev, A. A. A Titchmarsh-type convolution theorem on the group \mathbb{Z} . 90m:42019

Budke, Georg On a convolution property characterizing the Laguerre functions. 90g:42021

Doss, Ranaul Two generalizations of Titchmarsh's convolution theorem. 90h:42019

Goodman, T. N. T. (with Lee, Seng Luan) Convexity preserving convolution operators. 90j:42033

Lee, Seng Luan *see* Goodman, T. N. T., 90j:42033

Items with secondary classifications in 42A85

Burenkov, V. I. Estimates for Fourier transforms and convolutions in Nikol'skii-Besov spaces. (Russian) 90h:42016

Domar, Yngve Convolution theorems of Titchmarsh type on discrete \mathbb{R}^n . 90m:43014

Lepson, I. On conditions for Cesàro sectional summability and for Cesàro sectional boundedness for spaces of double sequences and Fourier series. (Russian. English summary) 90k:40003

Lyons, Russell Mixing and asymptotic distribution modulo 1. 90d:28019

Pavlov, E. A. A problem of the factorization of functions in symmetric spaces. 90i:43003

Rosenblatt, Joseph Determining a distribution from the modulus of its Fourier transform. 90h:46073

42A99 None of the above, but in this section

Wagner, Gerald Sala On an imbalance problem in the theory of point distribution.

90j:42034

Items with secondary classifications in 42A99

Krzyż, Jan G. Harmonic analysis and boundary correspondence under quasiconformal mappings. 90k:30034

Mesrobian, N. Kh. The cosine between the "past" and the "future" of a process. (Russian. English and Armenian summaries) 90f:60077

42Bxx Fourier analysis in several variables

42B05 Fourier series and coefficients

Andrienko, V. A. The rate of convergence and Cesàro summability of multiple orthogonal series. (Russian. English summary) 90g:42022

Ash, J. Marshall Uniqueness of representation by trigonometric series. 90k:42021

Bertin, Maharem Č. Coefficients of double lacunary trigonometric series. (Russian)

90d:42017

— *see also* Kastrati, R., 90k:42022

Bloshanskii, I. L. The structure and geometry of the maximal sets of convergence and of unbounded divergence almost everywhere of multiple Fourier series from L_1 equal to zero on a given set. 90j:42035

Bagrov, Ya. S. Absolute summability of Fourier transforms, and absolute convergence of multiple Fourier series. 90g:42023

D'yachenko, M. I. Double Fourier series with monotone coefficients. (Russian) (see 90m:00040)

— Lebesgue constants of Dirichlet kernels of monotone type, and convergence of multiple trigonometric series. 90g:42024

— Some properties of multiple Fourier series and Fourier transforms. (Russian) 90k:42020

Gabisoniya, O. D. Points of convergence of multiple Fourier series for some classes of functions. (Russian. English and Georgian summaries) (Not in MR)

Getsadze, R. D. Divergence in measure of general multiple orthogonal Fourier series. 90h:42021

Grona, V. L. Uniform approximation by spherical Fourier sums on classes of functions that can be defined by polyharmonic operators. 90i:42019

Jiang, Xun The saturation problem for a class of spherical linear means of multiple Fourier series. (Chinese) 90d:42018

- Kastrati, R. (with Berila, Muharem Č.) Fourier coefficients of lacunary trigonometric double series that belong to $S^p H^q_{\lambda, \mu}$ -classes of functions. (Russian. English and Serbo-Croatian summaries) 90k:42022
- Konovalov, S. P. A set of points of absolute convergence of a multiple trigonometric series. (Russian) 90k:42019
- Konyagin, S. V. Divergence with respect to measure of multiple Fourier series. 90k:42025 — Divergence of a subsequence of partial sums of multiple trigonometric Fourier series. (Russian) 90j:42036
- Korotko, Shigehiko A note on the summability of the Riesz means of multiple Fourier series. 90j:42037
- Li, Yan Nian Absolute convergence of Fourier series of complex functions on \mathbb{R}^n . (Chinese. English summary) 90k:42028
- Liu, He Ping see Ma, Bai Lin; et al., 90k:42022
- Lu, Shan Zhen see Ma, Bai Lin; et al., 90k:42022
- Ma, Bai Lin (with Liu, He Ping; Lu, Shan Zhen) A norm inequality with power weights for a class of maximal spherical summation operators. (Chinese. English summary) 90k:42022
- Mérics, F. (with Waterman, Daniel) Convergence of double Fourier series with coefficients of generalized bounded variation. 90k:42025 — On double cosine, sine, and Walsh series with monotone coefficients. 90k:42020 — Integrability of double lacunary sine series. 90m:42020
- Nosenko, Yu. L. Sufficient conditions for the integrability of double trigonometric series. (Russian) (see 90k:00046)
- Pavlov, A. P. Absolute convergence of multiple Fourier series. (Russian) (Not in MR)
- Petrov, Sergei Vasil'evich Generalization of an example of Steinhaus. (Russian) 90k:42021
- Radshabov, E. L. Spherical convergence and hypersingular integrals. (Russian. Tajiki summary) 90k:42020
- Reşculeţ, M. N. Research on trigonometric series. X. Double Fourier series associated with a nonintegrable function and singular along a line. (Romanian. French summary) 90k:42023
- Saakyan, A. A. The Bohr theorem for multiple trigonometric series. 90k:42022
- Shapina, M. A. The localization principle for Marcinkiewicz sums in the two-dimensional case. 90k:42011
- Stachowiak-Gulika, Danuta Representation of functions of the class $\phi(L)$ by the Faber-Schauder series on $(0, 1)^2$. 90k:42026
- Staples, Susan G. L^p -averaging domains and the Poincaré inequality. 90k:42024
- Talalyan, A. A. Uniqueness and integrability of multiple trigonometric series. (Russian) 90k:42023
- Tudor, Gheorghe M. Quelques inégalités sur les polynômes et séries trigonométriques en plusieurs variables. (Romanian summary) [Some inequalities for polynomials and trigonometric series in several variables] 90k:42012
- Vuković, M. On the G^2 summability of multiple Fourier series. (Serbo-Croatian summary) 90k:42024
- Wang, Kun Yang Multiple Fourier series and their linear means. (Chinese. English summary) 90k:42026
- Waterman, Daniel see Mérics, F., 90k:42025
- Yudin, V. A. Spherical sums of Fourier series in L_p . 90k:42025
- Zaderel, P. V. Convergence of linear means of multiple Fourier series of continuous functions. 90k:42029
- Items with secondary classifications in 42B05
- Belinskii, E. S. Approximation of functions of several variables by trigonometric polynomials with given number of harmonics, and estimates of ϵ -entropy. (Russian summary) 90m:42001
- Grigoryan, M. G. Representation of measurable functions by simple and multiple series in Legendre polynomials. (Russian. English and Armenian summaries) 90k:42007
- Izralova, M. M. Some theorems of Fatou type for multiple power series. (Russian. Tajiki summary) 90k:30004
- Koch, Per Erik Multivariate trigonometric B -splines. 90k:42004
- Malorov, V. E. Trigonometric widths of Sobolev classes. (Russian) (see 90k:00046)
- Matos, M. C. On holomorphy in Banach spaces and absolute convergence of Fourier series. 90k:46075
- Rzaev, R. M. Approximation of essentially continuous functions by singular integrals. (Russian) 90k:41024
- Steklov, A. M. Differentiation of integrals of functions in $L_p(L)$. (Russian) (see 90k:00046)
- Temirgaliyev, N. Approximate reconstruction of functions from values at the nodes of an "algebraic" grid. (Russian. Kazakh summary) 90k:65062

42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

- Bestys, Algirdas J. The generalized localization principle for an N -multiple Fourier integral in classes L_p . 90k:42027
- Beckner, W. (with Carbery, Anthony; Semmes, Stephen; Soria, Fernando) A note on restriction of the Fourier transform to spheres. 90k:42023
- Bray, William O. A characterization theorem for the Fourier transform on \mathbb{R}^n . 90k:42027
- Bugrov, Ya. S. Summability of Fourier transforms and absolute convergence of multiple Fourier series. (Russian) 90k:42025
- Carbery, Anthony see Beckner, W.; et al., 90k:42023
- Chandhary, M. S. On the characterization of distributional sine transforms. 90k:42026
- Gabardo, Jean-Pierre Tempered distributions with spectral gaps. 90k:42027
- Go, Kang Hui On the p -approximate property for hypersurfaces of \mathbb{R}^n . 90k:42013
- Gupta, B. L. (with Sharma, R. S.) On the absolute convergence of Fourier transform. 90k:42028
- Mattila, Pertti Spherical averages of Fourier transforms of measures with finite energy; dimension of intersections and distance sets. 90k:42009
- Rozavskii, L. V. Asymptotic expansion of the Fourier-Stieltjes transform of finite measure in some neighborhood of zero. 90k:42028
- Rubín, B. S. Fourier analysis of radial-spherical convolutions in \mathbb{R}^n . I. (Russian) 90m:42021

- Semmes, Stephen see Beckner, W.; et al., 90k:42023
- Sharma, R. S. see Gupta, B. L., 90k:42028
- Soria, Fernando see Beckner, W.; et al., 90k:42023
- Timotin, Dan C_2 -estimates for certain kernels on local fields. 90m:42010
- Zasleria, Yu. V. Symmetry properties of the Fourier-Bessel transform. (Russian) (see 90k:00007)
- Items with secondary classifications in 42B10
- Akhmedov, Sh. A. Spaces of entire analytic functions that characterize the Fourier transform of certain classes of compactly supported and infinitely differentiable functions. (Russian. Tajiki summary) 90k:46038
- Bugrov, Ya. S. Absolute summability of Fourier transforms, and absolute convergence of multiple Fourier series. 90k:42023
- Christ, Michael Weak type endpoint bounds for Bochner-Riesz multipliers. 90k:42024
- Córdoba, A. Dirac comb. 90m:46063
- Dostál, Miloš (with Gaveau, Bernard) Comportement asymptotique de la transformée de Fourier de certains corps convexes. (English summary) [Asymptotic behavior of the Fourier transform of certain convex bodies] 90k:58023
- Dyachenko, M. I. Some properties of multiple Fourier series and Fourier transforms. (Russian) 90k:42020
- Gaveau, Bernard see Dostál, Miloš, 90k:58023
- Grona, V. L. Uniform approximation by spherical Fourier sums on classes of functions that can be defined by polyharmonic operators. 90k:42019
- Hamaker, Charles A range problem for homogeneous, hyperbolic partial differential equations. 90k:35166
- Kuang, Ji Chang Approximation of elliptic Riesz operators on $H^p(T^n)$. (Chinese. English summary) 90k:41052
- Mickleborough, N. C. (with Pi, Y. L.) Modal parameter identification using Z -transforms. 90k:93130
- Pi, Y. L. see Mickleborough, N. C., 90k:93130

42B15 Multipliers

- Christ, Michael Weak type endpoint bounds for Bochner-Riesz multipliers. 90k:42024
- Córdoba, A. The disc multiplier. 90k:42038
- Dingosz, Jolanta L^p -multipliers for the Laguerre expansions. 90k:42014
- Gosselin, John (with Stempak, Krzysztof) A weak-type estimate for Fourier-Bessel multipliers. 90k:42025
- Korobeinik, Ya. F. Continuous multipliers of function spaces. (Russian) (see 90k:00006)
- Luehrs, Hajo On Riesz means with respect to a cylindrical distance function. 90k:42020
- Rubin, B. S. Multiplier operators and hypersingular integrals that are connected with Cauchy problems for the wave equation. 90m:42022
- Rubio de Francia, José Luis Transference principles for radial multipliers. 90m:42023
- Rustamov, Kh. P. An oscillating multiplier of spherical expansions. (Russian) (see 90k:00046)
- Seeger, Andreas Estimates near L^1 for Fourier multipliers and maximal functions. 90k:42039
- Stempak, Krzysztof see Gosselin, John, 90k:42025
- Zaderel, N. N. see Zaderel, P. V., 90k:42029
- Zaderel, P. V. (with Zaderel, N. N.) Multipliers of uniform convergence of multiple Fourier series of continuous functions. (Russian) 90k:42029
- Zhu, Ke He Multipliers of BMO in the Bergman metric with applications to Toeplitz operators. 90m:42024

Items with secondary classifications in 42B15

- Bloom, Steven Pointwise multipliers of weighted BMO spaces. 90k:42013
- Carbery, Anthony (with Rubio de Francia, José Luis; Vega, Luis) Almost everywhere summability of Fourier integrals. 90k:42033
- Fernandez, D. L. On Fourier multipliers of Banach lattice-valued functions. 90k:46083
- Kanjin, Yüchi Convergence almost everywhere of Bochner-Riesz means for radial functions. 90k:42034
- Kapitanovskii, L. V. Some generalizations of the Strichartz-Brenner inequality. (Russian) 90k:46063
- Korobeinik, Ya. F. Multipliers of weighted function spaces. (Russian. English summary) 90k:46073
- Lepassand, I. On conditions for Cesàro sectional summability and for Cesàro sectional boundedness for spaces of double sequences and Fourier series. (Russian. English summary) 90k:40003
- Nessel, R. J. (with van Wickeren, E.) Local multiplier criteria in Banach spaces. 90k:46110
- Oberlin, Daniel M. A linearization of the circular maximal operator. 90j:42048
- Pelczyński, A. Boundedness of the canonical projection for Sobolev spaces generated by finite families of linear differential operators. 90k:46067
- Rubin, B. S. Fourier analysis of radial-spherical convolutions in \mathbb{R}^n . I. (Russian) 90m:42021
- Rubio de Francia, José Luis see Carbery, Anthony; et al., 90k:42033
- Shaposhnikova, T. O. Applications of multipliers in $S. L$ Sobolev spaces to L_p -coercivity of the Neumann problem. 90k:35079
- Multipliers in the space of Bessel potentials as traces of multipliers in weighted classes. (Russian. English summary) 90k:46077
- Vega, Luis see Carbery, Anthony; et al., 90k:42033
- van Wickeren, E. see Nessel, R. J., 90k:46110
- Yoo, Zhong Results on commutators obtained from weighted norm inequalities. (Chinese. English summary) 90k:47052

42B20 Singular integrals (Calderón-Zygmund, etc.)

- Bak, Jong-Guk (with McMichael, David; Vance, James; Wainger, S.) Fourier transforms of surface area measure on convex surfaces in \mathbb{R}^3 . 90j:42040
- Börjesson, Lennart Regularity of averages over hypersurfaces. 90m:42025
- Bourdaud, Gérard Remarque sur une intégrale singulière de David et Semmes. [Remark on a singular integral of David and Semmes] 90k:42029

- Capri, Osvaldo N. (with Segovia, Carlos) Behaviour of L^p -Dini singular integrals in weighted L^p spaces. 90c:42021
- Chen, Long-Ke The singular integrals related to the Calderón-Zygmund method of rotations. 90b:42030
- Christ, Michael On the regularity of inverses of singular integral operators. 90c:42022 — (with Rubio de Francia, José Luis) Weak type $(1, 1)$ bounds for rough operators. II. 90c:42021
- Inversion in some algebras of singular integral operators. 90j:42041
- Coifman, R. (with David, Guy René; Meyer, Y.; Semmes, Stephen) ω -Calderón-Zygmund operators. 90b:42028
- David, Guy René Morceaux de graphes lipschitziens et intégrales singulières sur une surface. [Pieces of Lipschitz graphs and singular integrals on a surface] 90b:42026
- Singular integrals on surfaces. 90b:42027
- see also Coifman, R.; et al., 90b:42028
- Dominguez, Mariela Weighted inequalities. 90a:42011
- Eden, N. R. Weighted estimates of Magnaradze type for a linear singular integral and their application. (Russian) 90c:42030
- Fefferman, R. Harmonic analysis on product spaces. 90c:42030
- Frazier, M. (with Torres, R.; Weiss, Guido) The boundedness of Calderón-Zygmund operators on the spaces $F_p^{s, \lambda}$. 90b:42029
- Hofmann, Steve Weighted weak-type $(1, 1)$ inequalities for rough operators. 90c:42015
- Singular integrals with power weights. 90c:42026
- Hu, Wei Weighted norm inequalities for a class of oscillatory integrals. (Chinese. English summary) 90c:42023
- Journé, Jean-Lia Two problems of Calderón-Zygmund theory on product-spaces. 90b:42031
- Kokilashvili, V. M. Potentials on thin sets. 90c:42027
- Krug, Donald Singular integrals in product domains and the method of rotations. 90c:42016
- Kurtz, Douglas S. Singular integrals on BMO. 90c:42031
- Kuvshinov, I. A. Modified hypersingular integrals and their application to operators of potential type with difference radial characteristic. 90b:42030
- Lia, Henry Some weighted inequalities on product domains. 90c:42026
- Lia, Zong Guang Pointwise convergent approximate identities for a class of generalized dilated radially decreasing kernels. (Chinese. English summary) 90c:42031
- Lyakhov, L. N. The Fourier-Bessel transform of a kernel of a singular integral operator that is generated by a generalized shift. (Russian) 90c:42024
- McMichael, David see Bak, Jong-Guk; et al., 90j:42040
- Meyer, Y. see Coifman, R.; et al., 90b:42028
- Mykhaylov, K. T. Generalized spherical coordinates and characterization of an anisotropic singular integral. (Russian) (see 90b:00003)
- Nakai, Eiichi (with Yabuta, Kôzô) Singular integral operators on $L^{p, \lambda}$ -spaces. 90c:42027
- Namazi, Javad L^∞ -BMO boundedness for a singular integral operator. 90j:42042
- Phong, D. H. (with Stein, E. M.) Singular Radon transforms and oscillatory integrals. 90c:42043
- Rabie, S. H. A method of regularization for singular integrals over intervals. (Arabic summary) 90c:42032
- On multi-dimensional singular integral with integrable density. 90b:42032
- Rubio de Francia, José Luis see Christ, Michael, 90c:42021
- Ruiz Blasco, Francisco José (with Torres Hernández, José Luis) Parabolic differential equations and vector-valued Fourier analysis. 90j:42044
- Rustamov, Kh. P. Best approximation of the symbol of a multidimensional singular integral. (Russian) 90a:42012
- Sampson, G. Local estimates that lead to weighted estimates for oscillating kernels in two dimensions. 90c:42033
- Segovia, Carlos see Capri, Osvaldo N., 90c:42021
- Semmes, Stephen see Coifman, R.; et al., 90b:42028
- Sharpley, Robert (with Shim, Yong-sun) Singular integrals on C_p^* . 90c:42031
- Shim, Yong-sun see Sharpley, Robert, 90c:42031
- Siadat, Stanislaw On the convergence of double singular integrals. 90c:42032
- A theorem of the Romanovski type for double singular integrals. 90b:42032
- Stein, E. M. see Phong, D. H., 90j:42043
- Thompson, Alan A. A singular Radon transform on \mathbb{R}^3 . 90b:42033
- Torres Hernández, José Luis see Ruiz Blasco, Francisco José, 90j:42044
- Torres, R. see Frazier, M.; et al., 90b:42029
- Vance, James see Bak, Jong-Guk; et al., 90j:42040
- Wainger, S. Problems in harmonic analysis related to curves and surfaces with infinitely flat points. 90j:42045
- see also Bak, Jong-Guk; et al., 90j:42040
- Weiss, Guido see Frazier, M.; et al., 90b:42029
- Yabuta, Kôzô Sharp function estimates for oscillatory singular integrals. 90b:42028
- see also Nakai, Eiichi, 90b:42027
- Zhu, Xue Xian Boundedness of singular integral operators on $H^1(\mathbb{R}_t^1 \times \mathbb{R}_x^2)$. (Chinese) 90j:42046
- Items with secondary classifications in 42B20
- Bennett, Andrew G. The T1 theorem for martingales. 90f:60096
- Coifman, R. (with Jones, Peter Wilcox; Semmes, Stephen) Two elementary proofs of the L^2 boundedness of Cauchy integrals on Lipschitz curves. 90b:42017
- Fofana, Ibrahim Continuité de l'intégrale fractionnaire et espace $(L^p, l^p)^*$. (English summary) [Continuity of the fractional integral and $(L^p, l^p)^*$ -spaces] 90c:26014
- Frazier, M. (with Han, Y.-S.; Jawerth, B.; Weiss, Guido) The T1 theorem for Triebel-Lizorkin spaces. 90j:46035
- Han, Y.-S. see Frazier, M.; et al., 90j:46035
- Jawerth, B. see Frazier, M.; et al., 90j:46035
- Jones, Peter Wilcox see Coifman, R.; et al., 90b:42017
- Johnson, R. K. Errata to the paper: "Certain singular integral operators revisited" [Appl. Anal. 27 (1988), no. 1-3, 125-132; MR 89f:47077]. 90b:47106
- Knapf, Peter M. Mapping properties of the Szegő operator for the bidisc. 90b:32013
- Kurokawa, Takahide Weighted norm inequalities for Riesz potentials. 90j:26022
- Kurtz, Douglas S. Operator estimates using the sharp function. 90c:42036
- Lohoue, Noël Remarques sur les intégrales singulières sur les variétés à courbure non positive. (English summary) [Remarks on singular operators on non-positively curved Riemannian manifolds] 90c:58151
- Lao, Cheng Weighted norm inequalities in Lorentz spaces with weights. (Chinese) 90b:46064
- Meyer, Y. Wavelets and operators. 90b:42043
- Mizuta, Yoshihiro Continuity properties of Riesz potentials and boundary limits of Beppo Levi functions. 90m:31010
- Nogai, V. A. A method for the inversion and description of Bessel potentials with L_p -densities. (Russian) 90c:46055
- Application of hypersingular integrals to the description of weighted spaces of differentiable functions. (Russian) 90b:46074
- Ohtsuka, Makoto On weighted extremal length of families of curves. 90b:31009
- Peng, Li Zhong Multilinear singular integrals of Schatten-von Neumann class S_p . 90c:47131
- Rieci, Fulvia (with Stein, E. M.) Harmonic analysis on nilpotent groups and singular integrals. III. Fractional integration along manifolds. 90m:22027
- Rochberg, Richard (with Semmes, Stephen) End point results for estimates of singular values of singular integral operators. 90j:47069
- Rubio, B. S. Multiplier operators and hypersingular integrals that are connected with Cauchy problems for the wave equation. 90m:42022
- Seeger, Andreas Estimates near L^1 for Fourier multipliers and maximal functions. 90j:42039
- Segovia, Carlos (with Torres Hernández, José Luis) Vector-valued commutators and applications. 90b:47067
- Semmes, Stephen see Rochberg, Richard, 90j:47069 and Coifman, R.; et al., 90b:42017
- Shi, Xian Liang A class of singular integral operators—developments and problems. (Chinese. English summary) 90b:47093
- Stein, E. M. see Rieci, Fulvia, 90m:22027
- Tchamitchian, Ph. Ondelettes et intégrale de Cauchy sur les courbes lipschitziennes. (English summary) [Wavelets and the Cauchy integral on Lipschitz curves] 90b:42048
- Torres Hernández, José Luis see Segovia, Carlos, 90b:47067
- Wang, Tian Xi Three-dimensional filtering of the Hilbert transform. (Chinese) (Not in MR)
- Weiss, Guido see Frazier, M.; et al., 90b:46035
- Wilson, J. Michael Weighted inequalities for the square function. 90c:42021

42B25 Maximal functions, Littlewood-Paley theory

- Andersen, Kenneth F. Weighted inequalities for maximal functions in spaces of homogeneous type with applications to nonisotropic fractional integrals. 90c:42029
- Ariño, Miguel A. (with Muckenhoupt, Benjamin) Maximal functions on classical Lorentz spaces and Hardy's inequality with weights for nonincreasing functions. 90b:42034
- Bañuelos, Rodrigo (with Moore, Charles N.) Laws of the iterated logarithm, sharp good- λ inequalities and L^p -estimates for caloric and harmonic functions. 90c:42035
- (with Moore, Charles N.) Sharp estimates for the nontangential maximal function and the Lusin area function in Lipschitz domains. 90b:42030
- Bourgain, J. A remark on the maximal function associated to an analytic vector field. 90b:42028
- Bruna, Joaquim On the size of the maximal function and of the Hilbert transform. 90b:42029
- Capri, Osvaldo N. (with Gutiérrez, Cristian E.) Weighted inequalities for a vector-valued strong maximal function. 90c:42034
- Carberry, Anthony (with Rubio de Francia, José Luis; Vega, Luis) Almost everywhere summability of Fourier integrals. 90c:42033
- Covering lemmas revisited. 90b:42022
- Carton-Lebrun, C. (with Heinig, H. P.) Weighted norm inequalities involving gradients. 90c:42035
- Chen, Jie Cheng Some notes on maximal operators. (Chinese. English summary) 90c:42036
- Chen, Long-Ke The maximal operators related to the Calderón-Zygmund method of rotations. 90b:42034
- Chiarenza, Filippo (with Frasca, Michele) Morrey spaces and Hardy-Littlewood maximal function. 90b:42017
- Dzhvarshvili, A. G. Nontangential maximal functions for biharmonic functions. (Russian) 90c:42035
- Fefferman, R. A^p weights and singular integrals. 90b:42033
- Franciosi, Michelangelo Weighted rearrangements and higher integrability results. 90c:42036
- Frasca, Michele see Chiarenza, Filippo, 90b:42017
- Gallardo Gómez, Diego Weighted weak type integral inequalities for the Hardy-Littlewood maximal operator. 90b:42037
- Gutiérrez, Cristian E. see Capri, Osvaldo N., 90c:42034
- Ha, Young-Hwa L^2 -boundedness of spherical maximal operators with multidimensional parameter sets. 90c:42037
- Hare, Kathryn E. (with Klimes, Ivo) Properties of Littlewood-Paley sets. 90b:42018
- Helg, H. P. see Carton-Lebrun, C., 90b:42035
- Kanjin, Yüchi Convergence almost everywhere of Bochner-Riesz means for radial functions. 90b:42034
- Klimes, Ivo see Hare, Kathryn E., 90b:42018
- Kokilashvili, V. M. Singular integrals in weighted Orlicz classes. (Russian. English summary) 90m:42028
- Krbec, Miroslav Two-weight estimates for a maximal operator. (Russian) 90m:42029
- Krotov, V. G. Estimates for maximal operators that are connected with boundary behavior, and their applications. (Russian) 90b:42030
- Kurtz, Douglas S. Operator estimates using the sharp function. 90c:42036
- Margulis, Vladimir Arkadievich A maximal function along monotone curves. (Russian) (see 90b:00005)
- Martín-Reyes, F. J. (with Ortega Salvador, P.; de la Torre, Alberto) Weighted inequalities for one-sided maximal functions. 90j:42047
- Miyachi, Akihiko Maximal functions for distributions on open sets. 90b:42038

- Moore, Charles N. *see* Balmelos, Rodrigo, 90b:42030 and 90b:42035
- Muckenhoupt, Benjamin *see* Ariño, Miguel A., 90b:42034
- Oberlin, Daniel M. Operators interpolating between Riesz potentials and maximal operators. 90b:42025
- A linearization of the circular maximal operator. 90b:42048
- Ortega Salvador, P. *see* Martín-Reyes, F. J.; et al., 90b:42047
- Pan, Wen Jie Two weighted norm inequalities for maximal functions involving families of convex sets or quasiconvex sets. (Chinese. English summary) 90b:42039
- Pick, Labó Two weights weak type inequality for the maximal function in $L(1 + \log^+ L)^k$. 90b:42026
- Rakotonosoa, J.-M. Some properties of the relative rearrangement. 90b:42023
- Rubio de Francia, José Luis *see* Carbery, Anthony; et al., 90b:42033
- Schechter, Martin Multiplication operators. 90b:42031
- Shi, Hong Jian Weighted norm inequalities for the vector-valued Hardy-Littlewood maximal functions of one parameter rectangles. 90b:42049
- Shi, Xian Liang (with Torchinsky, Alberto) Local sharp maximal functions in spaces of homogeneous type. 90b:42019
- Sjögren, Peter How to recognize a discrete maximal function. 90b:42020
- Stoklosa, A. M. Differentiation of integrals of functions in $L_p(L)$. (Russian) (*see* 90d:00046)
- Torchinsky, Alberto *see* Shi, Xian Liang, 90b:42019
- de la Torre, Alberto *see* Martín-Reyes, F. J.; et al., 90b:42047
- Vega, Luis *see* Carbery, Anthony; et al., 90b:42033
- Wang, Shi Lin Boundedness of the Littlewood-Paley g -function on $Lip_\alpha(\mathbb{R}^n)$ ($0 < \alpha < 1$). 90b:42050
- Wilson, J. Michael Weighted inequalities for the square function. 90b:42021
- L^p weighted norm inequalities for the square function, $0 < p < 2$. 90b:42037
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- Beitows, F. (with Burbea, J.) Holomorphic Sobolev spaces on the ball. 90b:32010
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- Chen, Yong Zhao (with Lau, Ka Sing) Some new classes of Hardy spaces. 90b:46059
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- La, Shan Zhen Decomposition of kernel and maximal generalized Bochner-Riesz means. (Chinese summary) 90b:42016
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- Zha, Xue Xian. Boundedness of singular integral operators on $H^1(\mathbb{R}^n_+ \times \mathbb{R}^n_+)$. (Chinese) 90j:42046

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- Kerman, R. A. Pointwise convergence approximate identities of dilated radially decreasing kernels. 90a:42015
- Vuković, M. On an extension of the "converse" Bochner's formula. (Serbo-Croatian summary) 90g:42039
- Zaderev, P. V. Integrability conditions for multiple trigonometric series and their comparison. (Russian) 90g:42040
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- Zhainitskova, M. A. A criterion for the embedding of the class $E^{(\alpha, \beta, \gamma)}(\lambda)$ into $C([-\pi, \pi]^n)$. (Russian) (see 90h:00003)

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- Bassett, Albert, II. Some topics in symmetrization. 90h:26022
- Bloom, Steven (with De Souza, Geraldo Soares) Atomic decomposition of generalized Lipschitz spaces. 90g:46041
- Butzer, P. L. (with Hinsen, G.) Two-dimensional nonuniform sampling expansions—an iterative approach. I. Theory of two-dimensional bandlimited signals. 90j:41002
- (with Hinsen, G.) Two-dimensional nonuniform sampling expansions—an iterative approach. II. Reconstruction formulae and applications. 90j:41003
- De Souza, Geraldo Soares. *See* Bloom, Steven, 90g:46041
- Dumar, Yagve. Convolution theorems of Titchmarsh type on discrete \mathbb{R}^n . 90m:43014
- Hinsen, G. *See* Butzer, P. L., 90j:41002 and 90j:41003
- Kerman, R. A. Weighted restriction theorems for Bessel potentials. (Russian summary) 90h:31005
- Prava, G. I. Orthogonal polynomials of several discrete variables that are related to a negative polynomial distribution. (Russian) 90e:33034
- Skopina, M. A. Absence of localization for a trigonometric Fourier series in the two-dimensional case. (Russian) (see 90d:00009)
- Temlyakov, V. N. Approximation of functions of several variables by trigonometric polynomials with harmonics of hyperbolic crosses. 90e:42003
- Triebel, H. Local approximation spaces. (German and Russian summaries) 90h:46079

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- Abdullaev, F. G. On the rate of convergence of Fourier series in domains with zero angles. (Russian. English and Azerbaijani summaries) 90e:42041
- Alfaro, Ma. Pilar (with Alfaro, Manuel) Orthogonal polynomials sequences with prescribed values. 90f:42033
- Alfaro, Manuel. *See* Alfaro, Ma. Pilar, 90f:42033
- Al-Salam, W. A. (with Verma, Arun) On the Geronimus polynomial sets. 90m:42030
- Alvarez, Manuel. *See* Sansigre, G. J. et al., 90b:42038
- Ambroladze, M. U. The possible growth of orthogonal polynomials with a continuous positive weight. (Russian) 90e:42034
- Andrienko, V. A. Summability of double orthogonal series by Riesz methods. (Russian. English summary) 90g:42042
- Arutyunyan, R. V. Maximal convergence of Fourier-Jacobi series. (Russian. Armenian summary) 90g:42043
- Badkov, V. M. Uniform asymptotic representations of orthogonal polynomials and their derivatives in the case of a weight with singularities. (Russian) (see 90f:00006)
- Bakshetsyan, A. V. On rearrangements of orthogonal sets. (Russian summary) 90e:42035
- Balykbaev, T. O. Nisio's theorem. (Russian) (see 90f:00006)
- Belov, B. I. General sufficient conditions for the orthogonality of polynomials. (Russian) 90m:42031
- Bennell, R. P. (with Mason, J. C.) An application of orthogonal polynomials to the regularization and smoothing of integral transforms. 90m:42032
- Berkson, Earl. On the structure of the graph of the Franklin analyzing wavelet. 90b:42034
- Bregvadze, D. V. Summability of general orthogonal series. (Russian. English and Georgian summaries) 90m:42033
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- Draux, André. On semi-orthogonal polynomials. 90g:42044
- Dzhirbashyan, M. M. (with Rafaiyan, S. G.) Singular boundary value problems that generate systems of Fourier type. 90g:42045
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- Gómez, Luis A. *See* Charris Castañeda, Jaime A., 90j:42056
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- Guadalupe García, Rafael. *See* Terras, E., 90b:42044
- Hernández Herrera, René (with López Lagomasino, Guillermo) Relative asymptotics of orthogonal polynomials with respect to varying measures. (Spanish summary) 90g:42048
- (with López Lagomasino, Guillermo) Relative asymptotics of orthogonal polynomials with respect to varying measures. II. 90j:42057
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- (with Saff, E. B.) Zeros of expansions in orthogonal polynomials. 90b:42027
- Kuznetsov, Ya. I. ★ Статистические свойства ортогональных многочленов. (Russian) [Statistical properties of orthogonal polynomials] (Not in MR)
- Landau, H. J. Polynomials orthogonal in an indefinite metric. (see 90k:41001)
- López Lagomasino, Guillermo. Szegő's theorem for polynomials orthogonal with respect to varying measures. 90b:42036
- Asymptotics of polynomials orthogonal with respect to varying measures. 90b:42036
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- (with Saff, E. B.) Sufficient conditions for asymptotics associated with weighted extremal problems on \mathbb{R} . 90b:42037
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- Maroni, Pascal. *See* Dini, Jamal, 90i:42036
- Mason, J. C. *See* Bennell, R. P., 90m:42032
- Mercer, A. McD. The distribution of the zeros of certain orthogonal polynomials. 90i:42042
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- Neval, Paul. Characterization of measures associated with orthogonal polynomials on the unit circle. 90m:42034a
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- Njåstad, Olav. Orthogonal rational functions with poles in a finite subset of \mathbb{R} . 90e:42043
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- Über die Mittel von orthogonalen Funktionen. III. [On the means of orthogonal functions. III] 90g:42049
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- Andrienko, V. A. Approximation by Riesz means of negative order. (Russian) (see 90f:00006)
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- Askey, Richard. Beta integrals and the associated orthogonal polynomials. 90b:33001
- Atkinson, Akaron. n -orthonormal operator polynomials. (see 90k:41001)
- Ben-Artzi, A. (with Gohberg, I.) Extension of a theorem of M. G. Krein on orthogonal polynomials for the nonstationary case. (see 90k:41001)
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- Cachafeiro López, Ma. Alicia (with Marcellán, Francisco) Orthogonal polynomials and jump modifications. 90b:30004

- Chang, Yih Fong. *see* Li, Tsu T'ien, 90b:45029
- Charris Castañeda, Jairo A. (with Gómez, Luis A.) On the orthogonality measure of the q -Pollaczek polynomials. 90b:33014
- Chihara, T. S. The parameters of a chain sequence. 90a:40004
- Connert, William C. (with Schwartz, Alan L.) Product formulas, hypergroups, and the Jacobi polynomials. 90b:33022
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- Du, Jia Yuan. Singular integral equations with Hilbert kernel and some associated systems of orthogonal trigonometric polynomials. (Chinese. English summary) 90b:45010
- Dym, H. Hermitian block Toeplitz matrices, orthogonal polynomials, reproducing kernel Pontryagin spaces, interpolation and extension. (see 90b:41001)
- Fomin, G. A. A refined Lebesgue inequality for orthogonal expansions in some normed spaces. (Russian) 90b:42006
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- *see also* Alpey, Daniel, (90b:41001); Ben-Artzi, A., (90b:41001) and Orthogonal matrix-valued polynomials and applications, 90b:41001
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- Ismail, Mourad E. H. (with Letessier, Jean; Valent, Galliano) Associated dual Hahn polynomials. 90b:33022
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- Ivanov, V. I. Representation of functions by series in metric symmetric spaces without linear functionals. (Russian) 90b:41045
- Kashin, B. S. (with Saakyan, A. A.) ★ Orthogonal series. 90g:42001
- Lerer, L. *see* Gohberg, I., (90b:41001)
- Letessier, Jean. *see* Ismail, Mourad E. H.; et al., 90b:33022 and 90b:33010
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- López Lagomasino, Guillermo (with Rakhmanov, E. A.) Rational approximations, orthogonal polynomials and equilibrium distributions. 90b:41028
- Lubinsky, D. S. ★ Strong asymptotics for extremal errors and polynomials associated with Erdős-type weights. 90b:41014
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- Maroni, Pascal. L'orthogonalité de dimension d de certains polynômes orthogonaux "classiques" de dimension deux. [d -dimensional orthogonality of certain two-dimensional "classical" orthogonal polynomials] 90b:33026
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- Pfeister, Franz. Linear combinations of orthogonal polynomials generating positive quadrature formulas. 90b:65043
- Pérez Grass, I. *see* Marcellán, Francisco, 90b:30042
- Rakhmanov, E. A. *see* López Lagomasino, Guillermo, 90b:41028
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- Stahl, Herbert. n th-root asymptotics of orthonormal polynomials and nondiagonal Padé approximants. 90b:40003
- Totik, V. *see* Neval, Paul, 90b:33021
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- Van Assche, Walter. Orthogonal polynomials: bounded versus unbounded spectrum. 90g:41047
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- series in a canonical domain. (Russian) 90b:42023
- Balarstanova, A. S. (C, 1)-summability of partial sums of Fourier-Walsh series. (Russian) 90b:42024
- Bashmakova, I. B. (with Skopina, M. A.) A Tauberian theorem for Fourier-Legendre series. 90b:42038
- Bellingeri, Carlo. Analyticity and quasi-analyticity derived from the behavior of the coefficients of Jacobi-Fourier series expansions. (Italian. English summary) 90b:42025
- Bochkarev, S. V. Bases in function spaces and the Franklin system. (Russian) 90b:42039
- Bogmer, A. Generalization of a theorem of G. Alexits. 90b:42040
- Bojanic, R. (with Divis, Z.) Asymptotic behavior of partial sums of Fourier-Legendre series. 90b:42045
- Divis, Z. *see* Bojanic, R., 90b:42045
- Gaponova, I. T. (with Klokov, Yu. A.) Some transformations of the argument in Chebyshev series. (Russian) 90b:42039
- Gevorgyan, G. G. Theorems on the modified Franklin-Stromberg system. (Russian. English and Armenian summaries) 90b:42046
- Absolute and unconditional convergence of series in the Franklin system. (Russian) 90b:42051
- Uniqueness of series in the Franklin system. 90m:42035
- Some theorems on unconditional convergence and a majorant of Franklin series, and their application to the spaces $Re H_p$. 90b:42061
- Some theorems on unconditional convergence and the majorant of Franklin series and their application to the spaces $Re H_p$. (Russian) 90b:42040
- Grubb, D. J. U -sets in compact, 0-dimensional, metric groups. 90b:42052
- Gundalpe Hernández, José Javier (with Pérez, Mario; Varona, Juan L.) Mean and weak convergence of some orthogonal Fourier expansions by using A_p theory. 90b:42062
- Jod, István. On some problems of M. Horváth (saturation theorems for Walsh-Fourier expansions). 90b:42041
- Kanjin, Yūichi. A local property of absolutely convergent Laguerre polynomial series. 90m:42036
- Khare, Satya Prakash (with Singh, Peetam) Degree of approximation by generalised Nörlund means of the Fourier-Laguerre expansion. 90b:42053
- *see also* Singh, Amar Nath, 90b:42048
- Klokov, Yu. A. *see* Gaponova, I. T., 90b:42039
- Kováčik, Ondřej. Majorants of partial sums of Fourier series in the Haar system. (Slovak. English, German and Russian summaries) 90b:42017
- Lakshmikantham, S. F. Sets of uniqueness for lacunary Walsh series. (Russian) (see 90b:90046)
- Some classes of sets of uniqueness of multiple Walsh series. (Russian) 90b:42041
- Mallat, Stéphane G. Multiresolution approximations and wavelet orthonormal bases of $L^2(\mathbb{R})$. 90b:42046
- Maslov, A. V. An analogue of the Riesz-Fischer theorem for the Haar and Franklin systems in the spaces L_p . (Russian) (see 90b:90046)
- Meyer, Y. Ondelettes, fonctions splines et analyses graduées. [Wavelets, spline functions and graduated analyses] 90b:42047
- Nurpeisov, R. Zh. On the uniform (C, 1)-summability of Fourier series and integrability of series with respect to multiplicative orthonormal systems. (Russian summary) 90m:42037
- Ostrov, V. B. A property of a basis in the Haar system in $\mathcal{L}[0, 1]$. (Russian) 90b:42028
- Orsavian, R. I. Some uniqueness theorems for the Haar system and centered systems of continuous functions. (Russian. English and Armenian summaries) 90b:42063
- Pandey, B. N. (with Tripathi, L. M.) A study of Legendre series by uniform Nörlund summability method. 90b:42054
- Pérez, Mario. *see* Gundalpe Hernández, José Javier; et al., 90b:42062
- Robakidze, M. G. Fourier coefficients of absolutely continuous functions in the Haar system. (Russian. English and Georgian summaries) (Not in MR)
- Saeki, Sadahiro. Some applications of Khintchine's inequalities. 90b:42047
- Sedletskaia, A. M. Convergence of anharmonic Fourier series in systems of exponentials, cosines and sines. 90b:42026
- Scherbakov, V. I. A test of convergence of Fourier series with respect to multiplicative systems, analogous to the Jordan test. (Russian summary) 90b:42042
- Shergin, Yu. V. Fourier projectors onto the linear spans of Haar subsystems in the space $L^1[0, 1]$. 90m:42038
- Siddiqi, A. H. Approximation by Walsh series. 90b:42029
- Simonyan, A. S. Series in the Walsh system. (Russian) (see 90m:90040)
- Singh, Amar Nath (with Khare, Satya Prakash) Degree of approximation by Cesàro-Nörlund means of the Fourier-Laguerre expansion. 90b:42048
- Singh, Peetam. *see* Khare, Satya Prakash, 90b:42053
- Skopina, M. A. *see* Bashmakova, I. B., 90b:42038
- Skvortsov, V. A. (with Talalyan, A. A.) Some problems of the uniqueness of multiple series in the Haar system and a trigonometric system. 90b:42064
- Sommer, Manfred (with Strauss, Hans) Descartes systems in Haar subspaces. (see 90b:41001)
- Strauss, Hans. *see* Sommer, Manfred, (90b:41001)
- Suetin, P. K. ★ Ортогональные многочлены по двум переменным. (Russian) [Orthogonal polynomials in two variables] 90b:42055
- Suetin, V. Yu. On the rate of strong summability of Walsh-Fourier series for g -continuous functions in the class $Lip_{\alpha, \beta}$, $0 < \alpha \leq 1$. (Russian) (see 90m:90015)
- Sulaiman, W. T. On absolute Nörlund summability of Laplace series. 90b:42056
- Talalyan, A. A. *see* Skvortsov, V. A., 90b:42064
- Tang, Gao Xi. Walsh characteristic functions and moments. (Chinese. English summary) 90b:42039
- Tatoka, Jun. On some inequalities for Walsh-Fourier series. 90b:42034
- Thangavelu, S. Multipliers for Hermite expansions. 90b:42043
- Tripathi, L. M. *see* Pandey, B. N., 90b:42054
- Varona, Juan L. *see* Gundalpe Hernández, José Javier; et al., 90b:42062
- Young, Wo-Sang. Almost everywhere convergence of Vilenkin-Fourier series of H^1 functions. 90b:42057
- Zotikov, S. V. Representation of functions by their Fourier-Haar integrals. (Russian) (see 90m:90015)

42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)

Arutyunyan, R. V. Estimates for the rate of maximum convergence of Fourier-Laguerre

Items with secondary classifications in 42C10

- Arutyunyan, R. V. Maximal convergence of Fourier-Jacobi series. (Russian. Armenian summary) 90g:42043
- Askey, Richard Divided difference operators and classical orthogonal polynomials. 90h:33020
- Dunkl, Charles F. Differential-difference operators associated to reflection groups. 90h:33027
- Figiel, Tadeusz On equivalence of some bases to the Haar system in spaces of vector-valued functions. (Russian summary) 90i:46070
- Gevorkyan, G. G. On coefficients of null-series and on sets of uniqueness of trigonometric and Walsh systems. (Russian summary) 90c:42017
- Grossmann, A. Wavelet transforms and edge detection. 90a:92008
- Jaffard, S. (with Meyer, Y.) Les ondelettes. [Wavelets] 90j:42065
- Khare, Satya Prakash (with Tripathi, Virendra Kumar) Matrix summability of Jacobi series. 90j:40003
- Levinson, S. V. A central limit theorem for the Walsh system. (Russian) (see 90d:00046)
- Markett, Clemens Product formulas and convolution structure for Fourier-Bessel series. 90i:33012
- Meyer, Y. Constructions de bases orthonormées d'ondelettes. [Constructions of orthonormal bases of wavelets] 90g:42060
- see also Jaffard, S., 90j:42065
- Mo, Ye The Hadamard product of Legendre series. 90i:30006
- Prasolov, N. V. Singular distributions of Cantor and Salem types. (Russian) 90h:28010
- Singh, K. N. On the uniform Nörlund summability of Legendre series. 90c:40008
- Stachowiak-Guńka, Danuta Representation of functions of the class $\phi(L)$ by the Faber-Schauder series on $(0, 1)^2$. 90h:42026
- Tanabeke, S. Embedding theorems and inequalities of various metrics for best approximations in a system of Haar type. (Russian) (see 90h:00003)
- Turistrat, Pierre Polynômes orthogonaux. (English summary) [Orthogonal polynomials] 90h:42037
- Tripathi, Virendra Kumar see Khare, Satya Prakash, 90j:40003

42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions

- d'Alessandro, C. see Liénard, J. S., (90g:42062)
- Andrienko, V. A. Summability of orthogonal series by Cesàro methods of negative order. 90h:42048
- Ancher, P. Wavelets on chord-arc curves. (see 90g:42062)
- Arvola, S. A. (with Joó, István) Riesz bases of exponentials and sine-type functions. 90g:42058
- Basdevant, C. see Perrier, V., 90j:42067
- Belov, A. S. Divergent series in weakly multiplicative systems of functions. (Russian) (see 90i:00006)
- Benedetto, J. J. Gabor representations and wavelets. 90h:42044
- Berkson, Earl On the decay properties of the Franklin analyzing wavelet. (French summary) 90f:42027
- Bojanic, R. An estimate for the rate of convergence of a general class of orthogonal polynomial expansions of functions of bounded variation. 90a:42018
- Bokae, N. A. $U(s)$ -sets of a complete measure for multiplicative orthonormal systems. (Russian) (see 90m:90040)
- Coifman, R. Wavelet analysis and signal processing. (see 90j:94005)
- Combes, J. M. see Wavelets, 90g:42062
- Dauchois, Ingrid Orthonormal bases of compactly supported wavelets. 90m:42039
- Orthonormal bases of wavelets with finite support—connection with discrete filters. (see 90j:42062)
- Grossmann, A. (with Kronland-Martinet, R.; Morlet, J.) Reading and understanding continuous wavelet transforms. (see 90g:42062)
- see also Wavelets, 90g:42062
- Holschneider, M. Wavelet analysis on the circle. 90m:42040
- Jaffard, S. (with Meyer, Y.) Les ondelettes. [Wavelets] 90j:42065
- Construction of wavelets on open sets. (see 90g:42062)
- Joó, István see Arvola, S. A., 90g:42058
- Karsgulyan, G. A. Divergence of double Fourier series in complete orthonormal systems. (Russian. English and Armenian summaries) 90i:42042
- Kagan, D. A. A comparison of summation processes with the Riesz process in Banach spaces. (Russian. English summary) 90g:42059
- Kronland-Martinet, R. see Grossmann, A.; et al., (90g:42062)
- Lemarie, Pierre Gilles Base d'ondelettes sur les groupes de Lie stratifiés. (English summary) [Basis of wavelets on stratified Lie groups] 90j:42066
- Li, Jia Liang Random nonharmonic Fourier series. (Chinese. English summary) 90h:42045
- Liénard, J. S. (with d'Alessandro, C.) Wavelets and granular analysis of speech. (see 90g:42062)
- Meyer, Y. Constructions de bases orthonormées d'ondelettes. [Constructions of orthonormal bases of wavelets] 90g:42060
- Wavelets and operators. 90h:42043
- Orthonormal wavelets. (see 90g:42062)
- Ondelettes, filtres miroirs en quadrature et traitement numérique de l'image. [Wavelets, quadratic mirror filters and image processing] 90h:42046
- see also Jaffard, S., 90j:42065
- Mirmakhsadev, S. M. A condition of Salem type for rearranged multiplicative systems. (Russian. Tajiki summary) 90h:42049
- Mériz, F. (with Szalay, I.) Absolute summability of double orthogonal series. 90f:42028
- Morlet, J. see Grossmann, A.; et al., (90g:42062)
- Perrier, V. (with Basdevant, C.) Periodical wavelet analysis, a tool for inhomogeneous field investigation. Theory and algorithms. 90j:42067
- Sedletska, A. M. Analytic functions in nonharmonic Fourier analysis. (Russian. Serbo-Croatian summary) 90m:42041

- Selp, K. Mean value theorems and concentration operators in Bargmann and Bergman space. (see 90g:42062)
- Sereda, Yu. F. Convergence in Fourier series in an orthogonal system of functions. 90g:42061
- Skvortsov, V. A. Series in multiplicative systems, and generalized integrals. (Russian) (see 90i:00006)
- Sogge, C. D. Remarks on L^2 restriction theorems for Riemannian manifolds. 90h:42047
- Szalay, I. see Mériz, F., 90f:42028
- Tchamitchian, Ph. Ondelettes et intégrale de Cauchy sur les courbes lipschitziennes. (English summary) [Wavelets and the Cauchy integral on Lipschitz curves] 90h:42048
- see also Wavelets, 90g:42062
- Zhantsev, Zh. Kh. On the order of approximation of functions by Zygmund means of Fourier series in a multiplicative system. (Russian) (see 90h:00003)

Items listed otherwise than by author

- Conference:
Wavelets ★ Wavelets. 90g:42062
Marseille ★ Wavelets. 90g:42062
Wavelets ★ Wavelets. 90g:42062

Items with secondary classifications in 42C15

- Arneodo, A. (with Grasseau, G.; Holschneider, M.) Wavelet transform analysis of invariant measures of some dynamical systems. (see 90g:42062)
- Berthon, A. Operator groups and ambiguity functions in signal processing. (see 90g:42062)
- Bertrand, Jacqueline (with Bertrand, P.) Time-frequency representations of broad-band signals. (see 90g:42062)
- Bertrand, P. see Bertrand, Jacqueline, (90g:42062)
- Bros, J. Holomorphic integral representations for the solutions of the Helmholtz equation. (see 90g:42062)
- Daniél, Yves On the a.s. Cesàro- α convergence for stationary or orthogonal random variables. 90h:28017
- Feinsilver, Philip Lie algebras and recurrence relations. I. 90d:33009
- Flandrin, Patrick Some aspects of nonstationary signal processing with emphasis on time-frequency and time-scale methods. (see 90g:42062)
- Golightly, George O. Coefficients in sine series expansions of special entire functions. 90a:30077
- Grasseau, G. see Arneodo, A.; et al., (90g:42062)
- Grossmann, A. (with Holschneider, M.; Kronland-Martinet, R.; Morlet, J.) Detection of abrupt changes in sound signals with the help of wavelet transforms. 90f:94009
- Hannu, P. An algorithm for fast imaging of wavelet transforms. (see 90g:42062)
- Holschneider, M. (with Kronland-Martinet, R.; Morlet, J.; Tchamitchian, Ph.) A real-time algorithm for signal analysis with the help of the wavelet transform. (see 90g:42062)
- see also Grossmann, A.; et al., 90f:94009 and Arneodo, A.; et al., (90g:42062)
- Jaffard, S. Exposants de Hölder en des points donnés et coefficients d'ondelettes. (English summary) [Hölder exponents at given points and wavelet coefficients] 90h:46163
- (with Meyer, Y.) Bases d'ondelettes dans des ouverts de \mathbb{R}^n . [Wavelet bases in open sets in \mathbb{R}^n] 90h:46164
- Kon, M. A. (with Ramm, Alexander G.; Raphael, L. A.) Applications of operator approximation to Fourier analysis. 90h:47028
- Kronland-Martinet, R. see Grossmann, A.; et al., 90f:94009 and Holschneider, M.; et al., (90g:42062)
- McNik, Yu. I. Direct theorems for the approximation of functions that are regular in convex polygons by exponential polynomials in an integral metric. 90c:30040
- Meyer, Y. see Jaffard, S., 90h:46164
- Morlet, J. see Grossmann, A.; et al., 90f:94009 and Holschneider, M.; et al., (90g:42062)
- Murenzi, R. Wavelet transforms associated to the n -dimensional Euclidean group with dilations: signal in more than one dimension. (see 90g:42062)
- Musiak, Helena On strong Euler absolute ϕ -summability a.e. of orthonormal series. 90h:42018
- Okuyama, Yasuo On the absolute Riesz summability of orthogonal series. 90g:40004
- Paul, Thierry Wavelets and path integral. (see 90g:42062)
- Perrier, V. Towards a method for solving partial differential equations using wavelet bases. (see 90g:42062)
- Ramm, Alexander G. see Kon, M. A.; et al., 90h:47028
- Raphael, L. A. see Kon, M. A.; et al., 90h:47028
- Rempulskis, Lacya On the summability of numerical and orthogonal series by the (B, n) -method. 90h:40009
- Sedletska, A. M. Convergence of anharmonic Fourier series in systems of exponentials, cosines and sines. 90f:42026
- Szalay, I. On the strong Cesàro summability of double orthogonal series. 90h:40013
- Tchamitchian, Ph. About wavelets and elliptic operators. (see 90g:42062)
- see also Holschneider, M.; et al., (90g:42062)
- Tuteur, F. B. Wavelet transformations in signal detection. (see 90g:42062)

42C20 Rearrangements and other transformations of Fourier and other orthogonal series

- Bourgain, J. On Kolmogorov's rearrangement problem for orthogonal systems and Garsia's conjecture. 90i:42044
- Karsgulyan, G. A. Subsystems of convergence of an arbitrary orthonormal system. (Russian) 90h:42040
- Révész, Sz. Rearrangements of Fourier series. 90m:42042

42C25 Uniqueness and localization for orthogonal series

- Bokae, N. A. Sets of uniqueness for a class of orthonormal systems. (Russian) (see 90h:00003)
- Skvortsov, V. A. A uniqueness theorem for a multidimensional Haar series. 90f:42029

Items with secondary classifications in 42C25

Lukomskii, S. F. Some classes of sets of uniqueness of multiple Walsh series. (Russian) 90h:42041

42C30 Completeness of sets of functions

Jóó, István On Riesz bases. 90h:42045

42C99 None of the above, but in this section

Cunningham, Michael John see Oakley, John Peter; et al., 90h:42050

Dooley, A. H. A nonabelian version of the Shannon sampling theorem. 90j:42068

Gukevich, V. I. A Bessel-type inequality and a Parseval-type equality for a system of functions that is almost orthogonal on the entire axis. (Ukrainian. Russian summary) (Not in MR)

Little, Graham see Oakley, John Peter; et al., 90h:42050

Oakley, John Peter (with Cunningham, Michael John; Little, Graham) A Fourier-domain formula for the least-squares projection of a function onto a repetitive basis in N -dimensional space. 90h:42050

Rochberg, Richard (with Taibleson, Mitchell) An averaging operator on a tree. 90h:42046

Taibleson, Mitchell see Rochberg, Richard, 90h:42046

43-XX Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx.}

43-01 Elementary exposition; textbooks

Osipov, V. F. ★ Анализ Бора-Фурье на локально компактных коммутативных группах. (Russian) [Bohr-Fourier analysis on locally compact commutative groups] 90h:43001

Items with secondary classifications in 43-01

(Jacob, Andrei) see Lyubich, Yu. I., 90i:22001

Lyubich, Yu. I. ★ Introduction to the theory of Banach representations of groups. 90i:22001

43-02 Advanced exposition (research surveys, monographs, etc.)

Gurarii, V. P. Group methods of commutative harmonic analysis. (Russian) 90h:43001

Paterson, Alan L. T. ★ Amenability. 90h:43001

Items with secondary classifications in 43-02

Geerts, Antonius Henricus Wilhelmus ★ Structure of linear-quadratic control. 90h:49035

Mackey, George W. Induced representations and the applications of harmonic analysis. 90c:22021

Mohar, Bojan (with Woess, Wolfgang) A survey on spectra of infinite graphs. 90d:05162

Woess, Wolfgang see Mohar, Bojan, 90d:05162

43-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 43-03

Pier, Jean-Paul Some views on the evolution of harmonic analysis. 90d:01041

43-06 Proceedings, conferences, etc.

(Colella, David) see Commutative harmonic analysis, 90a:43001

Items listed otherwise than by author

Canton, NY ★ Commutative harmonic analysis. 90a:43001

Commutative harmonic analysis ★ Commutative harmonic analysis. 90a:43001

Conference:

Commutative Harmonic Analysis ★ Commutative harmonic analysis. 90a:43001

Contemporary Mathematics ★ Commutative harmonic analysis. 90a:43001

Items with secondary classifications in 43-06

(Déchamps-Gondim, Myriam) see Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001

(Loy, R. J.) see Conference: Automatic Continuity and Banach Algebras, 90f:46002

(Lust-Piquard, Françoise) see Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001

(Qoffelec, Hervé) see Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001

Items listed otherwise than by author

Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation

★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] 90f:00001

Canberra ★ Conference on Automatic Continuity and Banach Algebras. 90f:46002

Conference:

Automatic Continuity and Banach Algebras ★ Conference on Automatic Continuity and Banach Algebras. 90f:46002

Harmonic analysis: Working Group on Translation-Invariant Banach Spaces ★ Analyse

harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation.

[Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] 90f:00001

Working Group:

Translation-Invariant Banach Spaces ★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] 90f:00001

43A05 Measures on groups, semigroups, etc.

Argabright, Loren N. see Gil de Lamadrid, Jesús, 90h:43001

Gérardin, Paul Groupes commutatifs et positivité. (English summary) [Commutative groups and positivity] 90h:43002

Gil de Lamadrid, Jesús (with Argabright, Loren N.) Almost periodic measures. 90h:43001

Głowacki, Paweł The Rockland condition for nondifferential convolution operators. 90h:43002

Graham, Colin C. Summary of some results on L^p -improving measures. 90j:43001

— (with Hare, Kathryn E.; Ritter, David L.) The size of L^p -improving measures. 90m:43001

Hare, Kathryn E. see Graham, Colin C.; et al., 90m:43001

Heyer, H. Convolution semigroups of local type on a commutative hypergroup. 90h:43003

Kinzl, Franz Absolutely continuous measures on special semigroups. 90h:43004

Koshi, Shozo Analytic measure and quasi-invariant measure. (Serbo-Croatian summary) (see 90j:30001)

Mal'čuk, Peter Invariant measures on locally compact spaces and a topological characterization of unimodular Lie groups. (Russian summary) 90h:43001

Onipchuk, S. V. Idempotent measures on compact semihypergroups. 90m:43002

Ritter, David L. see Graham, Colin C.; et al., 90m:43001

Yamaguchi, Hiroshi² The F. and M. Riesz theorem on certain transformation groups. 90f:43003

Zenner, Hansmartin Properties of the cosh hypergroup. 90h:43005

— One-dimensional hypergroups. 90h:43002

Items with secondary classifications in 43A05

Alspach, D. E. (with Matheson, Alec L.; Rosenblatt, Joseph) Separating sets by Fourier-Stieltjes transforms. 90m:43022

Cartwright, Donald I. (with Soardi, P. M.) Convergence to ends for random walks on the automorphism group of a tree. 90f:60137

Derriennic, Y. (with Lin, Michael) Convergence of iterates of averages of certain operator representations and of convolution powers. 90h:47020

Gallardo, Léonard Correction to the article: "Infinitely divisible probability measures on discrete countable commutative hypergroups" [in *Probability measures on groups*, VII (Oberwolfach, 1983), 116–130, Lecture Notes in Math., 1064, Springer, Berlin, 1984; MR 86c:60011] by Gallardo and O. Gebuhrer. (French) 90h:60020

(Gebuhrer, Olivier) see Gallardo, Léonard, 90h:60020

Hare, Kathryn E. L^p -improving measures on compact nonabelian groups. 90h:43002

Kilmer, S. J. (with Sacki, Sadahiro) On Riesz product measures; mutual absolute continuity and singularity. (French summary) 90a:42006

Lin, Michael see Derriennic, Y., 90h:47020

Matheson, Alec L. see Alspach, D. E.; et al., 90m:43022

Rosenblatt, Joseph see Alspach, D. E.; et al., 90m:43022

Sacki, Sadahiro see Kilmer, S. J., 90a:42006

Soardi, P. M. see Cartwright, Donald I., 90f:60137

Turnwald, Gerhard Roots of Haar measure and topological Hamiltonian groups. 90m:22012

Zakrzewski, Piotr On universal semiregular invariant measures. 90a:03074

43A07 Means on groups, semigroups, etc.

Milnes, Paul (with Paterson, Alan L. T.) Ergodic sequences and a subspace of $B(G)$. 90h:43002

Nebbia, Claudio Amenability and Kunze-Stein property for groups acting on a tree. 90f:43004

Paterson, Alan L. T. see Milnes, Paul, 90h:43002

Sakai, Koichi Remarks on support filter for invariant means. 90h:43002a

— On amenable transformation semigroups with countable invariant means. 90h:43002b

Szwarc, Ryszard A short proof of the Grigorchuk-Cohen cogrowth theorem. 90e:43002

Woess, Wolfgang Amenable group actions on infinite graphs. 90m:43003

Yuan, Chuan Kuan Inner invariant means and the regular conjugation representation of $L^1(G)$. 90g:43001

— A property of locally compact groups. (Chinese. English summary) 90j:43002

— The theory of amenable groups—an introduction to an approach to abstract harmonic analysis. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 43A07

Argabright, Loren N. see Gil de Lamadrid, Jesús, 90h:43001

Chou, Chang Weakly almost periodic functions and thin sets in discrete groups. 90m:43023

Gil de Lamadrid, Jesús (with Argabright, Loren N.) Almost periodic measures. 90h:43001

Johnson, B. E. Derivations from $L^1(G)$ into $L^1(G)$ and $L^\infty(G)$. 90a:46122

Lau, A. T. (with Wong, J. C. S.) Weakly almost periodic elements in $L_\infty(G)$ of a locally compact group. 90m:43006

— (with Paterson, Alan L. T.; Wong, J. C. S.) Invariant subspace theorems for amenable groups. 90g:47007

Paterson, Alan L. T. ★ Amenability. 90h:43001

— The class of locally compact groups G for which $C^*(G)$ is amenable. 90m:22019

— see also Lau, A. T.; et al., 90g:47007

Wong, J. C. S. see Lau, A. T.; et al., 90g:47007 and 90m:43006

43A10 Measure algebras on groups, semigroups, etc.

Alhar, Sahi Fadul Noncommutative convolution measure algebras with no proper L -ideals.

90m:43004

Blasco De La Cruz, Oscar (with Candela, Juan C.) Banach algebras of vector measures. (Spanish. English summary) 90m:43001

Brown, Gavin (with Moran, William) The Raikov convolution measure algebra. 90k:43006

Candela, Juan C. see Blasco De La Cruz, Oscar, 90k:43001

Connett, William C. (with Schwartz, Alan L.) Analysis of a class of probability preserving

measure algebras on compact intervals. 90k:43007

Karanikas, C. Wiener pairs of measure algebras. 90k:43008

Moran, William see Brown, Gavin, 90k:43006

Schwartz, Alan L. see Connett, William C., 90k:43007

Items with secondary classifications in 43A10

Argabright, Loren N. see Gil de Lamadrid, Jesús, 90k:43001

Blasco De La Cruz, Oscar (with Candela, Juan C.) On algebras of vector-valued measures. (Spanish. English summary) 90k:46122

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- Derighetti, Antoine Convoluteurs et projecteurs. [Convolution and projection operators] 90c:43002
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- Last-Piquard, Françoise (with Schachermayer, Walter) Functions in $L^\infty(G)$ and associated convolution operators. 90c:43009
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- McGehee, O. Caruth Gaussian sums and harmonic analysis on finite fields. 90c:43012
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- Gérardin, Paul Groupes commutatifs et positivité. (English summary) [Commutative groups and positivity] 90c:43002
- Gil de Lamadrid, Jesús (with Argabright, Loren N.) Almost periodic measures. 90c:43001
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43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

- Price, John F. (with Sitaram, Alladi) Functions and their Fourier transforms with supports of finite measure for certain locally compact groups. 90c:43003
- Sitaram, Alladi see Price, John F., 90c:43003
- Ward, J. A. Analytic functions which operate on homogeneous algebras. 90a:43003
- Xu, Zeng Fu Approximation properties of Gauss-Weierstrass type means of Fourier series on compact Lie groups. (Chinese. English summary) 90c:43006
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- Arnal, D. (with Cahen, M.; Gutt, S.) Exponential and holomorphic discrete series. 90c:22019
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- Chou, Ching Weakly almost periodic functions and thin sets in discrete groups. 90m:43023
- Colzani, Leonardo (with Giulini, Saverio; Travaglini, Giancarlo) Sharp results for the mean summability of Fourier series on compact Lie groups. 90c:43003b
- Giulini, Saverio (with Travaglini, Giancarlo) Central Fourier analysis for Lorentz spaces on compact Lie groups. 90c:43003a
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- Gutt, S. see Arnal, D.; et al., 90c:22019
- Kawase, Takeshi (with Miyazaki, Hiroshi) Fourier series with nonnegative coefficients on compact semisimple Lie groups. 90c:22016
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- Ressel, Paul A conjecture concerning mixtures of characters from a given closed subsemigroup in the dual. 90c:43017
- Robertson, A. G. Some abelian Banach algebras of operators on the matricial Π_1 factor. 90c:46136
- Shahshahani, Mehrdad Poincaré inequality, uncertainty principle, and scattering theory on symmetric spaces. 90c:22017
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- Trukhina, I. P. Estimates of stability of decompositions in the Lamperti semigroup of probability measures on a sphere. 90a:60014

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- Rogov, V. B. K. The Fourier-Mellin-Whittaker transform on horospheres of homogeneous pseudo-Riemannian symmetric spaces of rank 1. 90c:43010
- Yu, Sha Mo Harmonic analysis for operators on homogeneous Banach spaces. (Chinese) 90c:43005

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- Ali, H. A. see Okb El-Bah, A. S.; et al., 90c:43006
- Berg, Christian (with Sasvári, Zoltán) Functions with a finite number of negative squares on semigroups. 90c:43006
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- Okb El-Bah, A. S. (with Zabel, A. M.; Ali, H. A.) Semi-direct product invariant kernels. 90c:43006
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- Arocena, Rodrigo On the extension problem for a class of translation invariant positive forms. 90c:47015
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- Gall, I. M. Positive-definite functions on direct product (sum) of locally compact abelian groups. 90m:22010
- Gurarii, V. P. Group methods of commutative harmonic analysis. (Russian) 90c:43001
- Jørgensen, Palle E. T. Positive definite functions on the Heisenberg group. 90m:22024
- Milnes, Paul (with Paterson, Alan L. T.) Ergodic sequences and a subspace of $B(G)$. 90c:43002
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- Szwarc, Ryszard Matrix coefficients of irreducible representations of free products of groups. 90m:22017
- Tarieladze, V. I. The Fourier topology for infinite-dimensional spaces. (Russian) 90c:46073
- Volt, Michael Positive and negative definite functions on the dual space of a commutative hypergroup. 90m:60012
- Zabel, A. M. Integral representation of generalized invariant reflection positive matrix kernel. 90c:47019

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- Fatiziev, V. A. Pseudocharacters on free groups and on some group constructions. 90a:20047
- Zimmer, Hansmartin Properties of the coah hypergroup. 90c:43005
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43A45 Spectral synthesis on groups, semigroups, etc.

- Colella, David A Bochner-Herz property in bounded synthesis. 90c:43004
- Kaufman, Robert P. A note on tilde algebras. 90c:43014
- Salinger, D. L. (with Stegeman, J. D.) Spectral synthesis and difference spectra. 90a:43004
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- Items with secondary classifications in 43A45
- Froelich, John Compact operators, invariant subspaces, and spectral synthesis. 90c:47078
- Parreau, François (with Weit, Yitzhak) Schwartz's theorem on mean periodic vector-valued functions. (French summary) 90m:32020
- Pennings, Tim (with Peters, Justin) Dynamical systems from function algebras. 90c:46086

- Peters, Justin *see* Pennings, Tim, 90f:46086
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43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

- Alspach, D. E. (with Matheson, Alec L.; Rosenblatt, Joseph) Separating sets by Fourier-Stieltjes transforms. 90m:43022
 Bourgain, J. Bounded orthogonal systems and the $A(p)$ -set problem. 90h:43008
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- Colella, David A Bochner-Herz property in bounded synthesis. 90g:43004
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 Froelich, John Compact operators, invariant subspaces, and spectral synthesis. 90h:47078
 Grubb, D. J. U -sets in compact, 0-dimensional, metric groups. 90g:42052
 Guo, Kang Hui On the p -approximate property for hypersurfaces of \mathbb{R}^n . 90c:42013
 Hare, Kathryn E. (with Klemes, Ivo) Properties of Littlewood-Paley sets. 90c:42018
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 Kechris, Alexander S. (with Louveau, Alain) ★ Descriptive set theory and the structure of sets of uniqueness. 90a:42008
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 Kilmer, S. J. Equivalence of Riesz products. 90c:42030
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43A50 Convergence of Fourier series and of inverse transforms

- Berman, D. L. On the existence of a linear polynomial operator on topological groups. (Russian) 90g:43005
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43A55 Summability methods on groups, semigroups, etc.

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- Platonov, S. S. An analogue of Fejér sums for Fourier series on the group $SO(3)$. (Russian) 90c:43003

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- Berman, D. L. On the existence of a linear polynomial operator on topological groups. (Russian) 90g:43005
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 Giulini, Saverio (with Travaglini, Giancarlo) Central Fourier analysis for Lorentz spaces on compact Lie groups. 90h:43003a
 — *see also* Colzani, Leonardo; et al., 90h:43003b
 Jenkins, Joe W. Bi-invariant Schwartz multipliers and local solvability on nilpotent Lie groups. 90d:22010
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43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

- Chou, Ching Almost periodic operators in $VN(G)$. 90c:43004
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- Chou, Ching Weakly almost periodic functions and thin sets in discrete groups. 90m:43023
 Gorbis, A. Z. (with Tempelman, A. A.) The averaging of almost periodic functions and of finite-dimensional unitary representations on free groups. 90m:22015
 Iwanik, A. Weyl almost periodic points in topological dynamics. 90i:54006
 Karakhanyan, M. I. Conditions for the completeness of a system of eigenvectors of a generalized normal operator. (Russian. English and Armenian summaries) 90f:22004
 Kurbatov, V. G. Invertibility of almost periodic operators. (Russian) 90m:47048
 Lyubich, Yu. I. *see* Vũ Quốc Phong, 90c:22004

- Osipov, V. F. ★ Анализ Бора-Фурье на локально компактных коммутативных группах. (Russian) [Bohr-Fourier analysis on locally compact commutative groups] 90h:43001
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43A65 Representations of groups, semigroups, etc.

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- Pavel, Liliana Sur certaines propriétés des représentations induites des hypergroupes. [On certain properties of induced hypergroup representations] 90c:43005
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 Rindler, Harald Groups of measure preserving transformations. II. 90c:28024
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 Summers, W. H. *see* Ruess, W. M., 90c:46056
 Tadić, M. On limits of characters of irreducible unitary representations. (Serbo-Croatian summary) 90h:22019
 Terras, Audrey The central limit theorem for the symmetric space of $GL(3)$. 90j:60015
 Vũ Quốc Phong Opérateurs et représentations de Markov presque-périodiques de semi-groupes dans les espaces L^p . (English summary) [Markov almost periodic operators and representations of semigroups in the spaces L^p] 90g:47060

43A70 Analysis on specific locally compact abelian groups

[*see also* 11R56]

- Items with secondary classifications in 43A70
 Onneweer, C. W. (with Su, Wei Yi) Homogeneous Besov spaces on locally compact Vilenkin groups. 90h:43004
 Price, John F. (with Sitaram, Alladi) Some uncertainty principles in abstract harmonic analysis. 90c:43006
 Sitaram, Alladi *see* Price, John F., 90c:43006
 Su, Wei Yi *see* Onneweer, C. W., 90h:43004

43A75 Analysis on specific compact groups

- Cowling, Michael (with Meaney, Christopher) On a maximal function on compact Lie groups. 90c:43005
 Fan, Da Shan (with Xie, Jia Hai) A weak inequality for maximal Fejér operators on symplectic groups. (Chinese) 90m:43027
 Meaney, Christopher *see* Cowling, Michael, 90c:43005
 Xie, Jia Hai *see* Fan, Da Shan, 90m:43027

Items with secondary classifications in 43A75

- Narpeisov, R. Zh. On the uniform $(C, 1)$ -summability of Fourier series and integrability of series with respect to multiplicative orthonormal systems. (Russian summary) 90m:42037
 Patadia, J. R. Lacunary Fourier series on certain groups. 90m:42017
 Timotin, Dan C_p -estimates for certain kernels on local fields. 90c:42010

43A77 Analysis on general compact groups

- Items with secondary classifications in 43A77
 Lahiri, B. K. Density and sparse set topology. 90a:22003
 Varadarajan, V. S. The states of the character ring of a compact group. 90f:22015

43A80 Analysis on other specific Lie groups [*see also* 22E30]

- Dani, S. G. (with McCrudden, M.) On the factor sets of measures and local tightness of convolution semigroups over Lie groups. 90d:43005
 McCrudden, M. *see* Dani, S. G., 90d:43005
 Price, John F. (with Sitaram, Alladi) Some uncertainty principles in abstract harmonic analysis. 90c:43006
 Ricci, Fulvio (with Sjögren, Peter) Two-parameter maximal functions in the Heisenberg group. 90d:43006
 Sitaram, Alladi *see* Price, John F., 90c:43006
 Sjögren, Peter *see* Ricci, Fulvio, 90d:43006

Items with secondary classifications in 43A80

- Chen, Jie Cheng Some notes on maximal operators. (Chinese. English summary) 90c:42036

- Cowling, Michael (with Haagerup, Uffe) Completely bounded multipliers of the Fourier algebra of a simple Lie group of real rank one. 90b:22008
- Damek, Ewa An area theorem for a one-dimensional semidirect extension of homogeneous groups. 90c:22028
- Grélaud, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] 90i:22015
- Haagerup, Uffe see Cowling, Michael, 90b:22008
- Kamoun, Lotfi Distributions coniques associées à $SL(3, \mathbb{R})$. (English summary) [Conical distributions associated to $SL(3, \mathbb{R})$] 90b:22012
- Klimyk, A. U. see Vilenkin, N. Ya., 90a:22020
- Krawczyk, Jarosław Hardy spaces on $SU(2)$. 90b:22013
- Lohoue, Noël Estimées de type Hardy pour l'opérateur $\Delta + \lambda$ d'un espace symétrique de type non compact. (English summary) [Hardy estimates for $\Delta + \lambda$ on a noncompact-type symmetric space] 90d:43008
- Peetre, Jaak Some calculations related to Fock space and the Shale-Weil representation. 90c:22012
- Stempak, Krzysztof A new proof of a Watson's formula. 90m:33013
- Strasburger, Aleksander Reduction of invariant differential operators and expansions of conical distributions for $SO_0(n, 1)$. 90b:22027
- Vilenkin, N. Ya. (with Klimyk, A. U.) Representations of the group $SU(1, 1)$, and the Krawtchouk-Meixner functions. (Russian. English summary) 90a:22020
- Wang, Xiaolu ★ The C^* -algebras of a class of solvable Lie groups. 90j:46060

43A85 Analysis on homogeneous spaces

- Akkouchi, Mohamed Une caractérisation du noyau de Poisson d'un arbre homogène. [A characterization of the Poisson kernel of a homogeneous tree] 90b:43015
- Bilmlinger, M. (with Drmota, M.; Tichy, R. F.) Asymptotic distribution of functions on compact homogeneous spaces. 90b:43009
- Chen, Guang Xiao A note on the spherical Fourier transform and invariant differential operators on the matrix hyperbolic space \mathcal{H}_1 . (Chinese) 90d:43012
- Fundamental solution of Poisson equation in classical Cartan domain \mathcal{H}_1 . 90g:43006
- Clerc, J.-L. Fonctions K de Bessel pour les algèbres de Jordan. (English summary) [Bessel K -functions for Jordan algebras] 90d:43007
- Cohen, Joel M. (with Picardello, Massimo A.) The 2-circle and 2-disk problems on trees. 90a:43006
- Drmota, M. see Bilmlinger, M.; et al., 90b:43009
- Faraut, J. Algèbres de Volterra et transformation de Laplace sphérique sur certains espaces symétriques ordonnés. [Volterra algebras and spherical Laplace transform on certain ordered symmetric spaces] 90c:43006
- Formule du binôme généralisée. [The generalized binomial formula] 90b:43016
- Lewkowicz, R. E. Harmonic functions on homogeneous spaces of commutator induced extensions of compact groups. 90c:43007
- Lohoue, Noël Estimées de type Hardy pour l'opérateur $\Delta + \lambda$ d'un espace symétrique de type non compact. (English summary) [Hardy estimates for $\Delta + \lambda$ on a noncompact-type symmetric space] 90d:43008
- Mair, B. A. (with Philipp, Stanton; Singman, David) A converse Fatou theorem on homogeneous spaces. 90b:43008
- Oshima, Toshio A method of harmonic analysis on semisimple symmetric spaces. 90c:43007
- Philipp, Stanton see Mair, B. A.; et al., 90b:43008
- Picardello, Massimo A. see Cohen, Joel M., 90a:43006
- Platonov, S. S. Invariant subspaces in some function spaces on an n -dimensional Lobachevskii space. 90b:43013
- Singman, David see Mair, B. A.; et al., 90b:43008
- Strichartz, Robert S. Local harmonic analysis on spheres. 90b:43014
- Tichy, R. F. see Bilmlinger, M.; et al., 90b:43009
- Wawrzyńczyk, Antoni Spectral analysis and synthesis on homogeneous spaces. (Spanish) 90b:43015
- Spectral analysis on upper light cone in \mathbb{R}^3 and the Radon transform. 90b:43010

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- Agranovski, M. L. Möbius spaces of functions on the Shilov boundaries of classical domains of tube type. 90c:32048
- Ahmad, Guido Analyse harmonique sur l'espace d'arêtes d'un arbre. [Harmonic analysis on the edge space of a tree] 90b:22009
- Anker, Jean-Philippe Le noyau de la chaleur sur les espaces symétriques $U(p, q)/U(p) \times U(q)$. [The heat kernel on the symmetric spaces $U(p, q)/U(p) \times U(q)$] 90f:58168
- Chaabouni-Sellami, Amel Relations entre les fonctions moyennes sur un espace préhomogène. (English summary) [Relations among mean functions on a prehomogeneous space] 90k:22010
- Chen, Zhi He The invariant differential operators of order two for a class of nonsymmetric domains. (Chinese) 90c:32045
- Conze, Jean-Pierre (with Raugi, Albert) Fonctions μ -harmoniques et méthodes probabilistes d'approximation. (English summary) [μ -harmonic functions and probabilistic methods of approximation] 90d:60011
- Damek, Ewa An area theorem for a one-dimensional semidirect extension of homogeneous groups. 90c:22028
- Faraut, J. (with Korányi, A.) Fonctions hypergéométriques associées aux cônes symétriques. (English summary) [Hypergeometric functions associated with symmetric cones] 90a:22010
- (with Korányi, A.) Function spaces and reproducing kernels on bounded symmetric domains. 90m:32049
- Grélaud, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] 90i:22015
- Klesova, L. M. see Vilenkin, N. Ya., 90a:22018
- Korányi, A. see Faraut, J., 90a:22010 and 90m:32049

- Li, Am Gil (with Mařtsev, V. M.) ★ Гармонические функции на группе $SU(n)$. (Russian) [Harmonic functions on the group $SU(n)$] 90g:22014
- Lipsman, Ronald L. Solvability of noninvariant differential operators on homogeneous spaces. 90b:22026
- Mařtsev, V. M. see Li, Am Gil, 90g:22014
- Nomura, Takaaki A description of a space of holomorphic discrete series by means of the Fourier transform on the Šilov boundary. 90g:22023
- Orio, Jeremy Invariant Radon transforms on a symmetric space. 90g:44003
- Platonov, S. S. Invariant subspaces in some function spaces on symmetric spaces of rank 1. 90b:22022
- Rangi, Albert see Conze, Jean-Pierre, 90d:60011
- Richards, Donald St. P. Constant regression polynomials and the Wishart distribution. 90b:62120
- Ruiz Blasco, Francisco José (with Torrea Hernández, José Luis) Parabolic differential equations and vector-valued Fourier analysis. 90j:42044
- Samplari, Umberto Lie group structures and reproducing kernels on homogeneous Siegel domains. 90c:32033
- Sjögren, Peter Asymptotic behaviour of generalized Poisson integrals in rank one symmetric spaces and in trees. 90b:22018
- Solomatina, L. E. Fundamental solutions of invariant differential equations on symmetric spaces. (Russian) 90a:22011
- Tong, Yue Lin Lawrence (with Wang, Shu Ping) Geometric realization of discrete series for semisimple symmetric spaces. 90g:22024
- Torrea Hernández, José Luis see Ruiz Blasco, Francisco José, 90j:42044
- Vilenkin, N. Ya. (with Klesova, L. M.) Functions of the discrete spectrum in harmonic analysis on hyperboloids. 90a:22018
- Wang, Shu Ping see Tong, Yue Lin Lawrence, 90g:22024
- Ye, Fang Cao Invariant differential operators on nonexceptional irreducible Riemannian symmetric spaces of the first type. (Chinese. English summary) 90m:32050
- Yue, Zhaoqun Tent spaces on Lipschitz domains. (Chinese. English summary) 90b:46074
- Yu, Shu Mo Harmonic analysis for operators on homogeneous Banach spaces. (Chinese) 90c:35005
- Zeuner, Hansmartin One-dimensional hypergroups. 90i:43002
- Zhu, Fu Lin Riesz transformations on a noncompact symmetric space of rank one. (Chinese) 90m:22029

43A90 Spherical functions [see also 22E45, 22E46]

- Bouaziz-Kellil, Ferdaous Représentations sphériques des groupes agissant transitivement sur un arbre semi-homogène. (English summary) [Spherical representations of groups acting transitively on a semihomogeneous tree] 90c:43006
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- Ahmad, Guido Analyse harmonique sur l'espace d'arêtes d'un arbre. [Harmonic analysis on the edge space of a tree] 90b:22009
- Beteri, W. (with Faraut, J.; Pagliacci, M.) An inversion formula for the Radon transform on trees. 90b:22004
- Faraut, J. (with Strasburger, Aleksander) Vecteurs de Whittaker et fonctions horosphériques. (English summary) [Whittaker vectors and horospherical functions for real hyperbolic spaces] 90b:22015
- see also Beteri, W.; et al., 90b:22004
- Klimyk, A. U. (with Vilenkin, N. Ya.) Relations between spherical functions of compact groups. 90b:22024
- Lohoue, Noël Estimées de type Hardy pour l'opérateur $\Delta + \lambda$ d'un espace symétrique de type non compact. (English summary) [Hardy estimates for $\Delta + \lambda$ on a noncompact-type symmetric space] 90d:43008
- Mimachi, Katsuhisa see Noumi, Masatoshi; et al., 90k:17032
- Noumi, Masatoshi (with Yamada, Hirofumi; Mimachi, Katsuhisa) Zonal spherical functions on the quantum homogeneous space $SU_q(n+1)/SU_q(n)$. 90k:17032
- Pagliacci, M. see Beteri, W.; et al., 90b:22004
- Rader, Cary Spherical functions on Cartan motion groups. 90a:22014
- Radzhabov, B. A. Spherical functions on the groups $SO(p, q)$. II. Associated functions. (Russian. English and Azerbaijani summaries) 90c:22049
- Solomatina, L. E. Fundamental solutions of invariant differential equations on symmetric spaces. (Russian) 90a:22011
- Strasburger, Aleksander Reduction of invariant differential operators and expansions of conical distributions for $SO_0(n, 1)$. 90b:22027
- see also Faraut, J., 90b:22015
- Tiraboschi, Alejandro A relationship between the spherical functions of $SL_2(\mathbb{R})$ and a 2-covering of $I_0(\mathbb{R}^2)$. (Spanish) 90b:22023
- Trenholme, Alice R. A Green's function for nonhomogeneous random walks on free products. 90d:60012
- Vilenkin, N. Ya. see Klimyk, A. U., 90b:22024
- Wawrzyńczyk, Antoni Spectral analysis on upper light cone in \mathbb{R}^3 and the Radon transform. 90b:43010
- Yamada, Hirofumi see Noumi, Masatoshi; et al., 90k:17032
- Zeuner, Hansmartin The central limit theorem for Chébli-Trimeche hypergroups. 90c:60087

43A99 Miscellaneous topics

- Atanasiu, Dragu Fonctions moment sur un semi-groupe commutatif. (English summary) [Moment functions on a commutative semigroup] 90i:43009
- Feinsilver, Philip Elements of q -harmonic analysis. 90i:43010
- He, Ze Lin Approximation by a class of operators and best approximation in $L^p(G)$ with $1 < p < \infty$ and $G = \mathbb{R}, \mathbb{T}$, or \mathbb{Z} . (Chinese) 90g:43008
- Kalyuzhnyi, A. A. Duality of generators of compact and discrete hypercomplex systems with a one-dimensional base. (Russian. English summary) 90j:43004
- Saloff-Coste, Laurent Sur la décroissance des puissances de convolution sur les groupes. (English summary) [On the decay of convolution powers on groups] 90j:43005

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- Chojnacki, Wojciech On some functional equation generalizing Cauchy's and d'Alembert's functional equations. 90a:39010
 Schempp, Walter The diamond solvable Lie group and fiber optical communication systems. (see 90i:81003)
 Valnerman, L. I. Nonunimodular quantized hypercomplex systems. (Russian. English summary) 90h:46099
 Vodopyanov, S. K. Potential theory on homogeneous groups. 90h:31010
 Zimmer, Hansmartin Laws of large numbers of hypergroups on \mathbb{R}_+ . 90j:60016

44-XX Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For numerical methods, see 65R10.}

44-00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 44-00

- (Gamkrelidze, R. V.) see Analysis, 90j:00027
 (Newton, Dan) see Analysis, 90j:00027

Items listed otherwise than by author

- Analysis ★ Analysis. I. 90j:00027
 Encyclopedia of Mathematical Sciences ★ Analysis. I. 90j:00027

44-01 Elementary exposition; textbooks

Items with secondary classifications in 44-01

- (Kallin, Konstantin) see Krasnov, M. L.; et al., 90k:00014
 Kiselev, A. I. see Krasnov, M. L.; et al., 90k:00014
 Krasnov, M. L. (with Kiselev, A. I.; Makarenko, G. I.) ★ Funzioni di una variabile complessa. Calcolo operatoriale. Teoria della stabilità. (Italian) [Functions of a complex variable. Operational calculus. Stability theory] 90k:00014
 Makarenko, G. I. see Krasnov, M. L.; et al., 90k:00014

44A05 General transforms [see also 42A38]

- Agrawal, S. M. see Gupta, Kailash Chandra, 90c:44002
 Basurlov, A. A. On a connection between some integral transforms. (Russian) 90f:44001
 Drury, S. W. L^p estimates for certain generalizations of k -plane transforms. 90f:44002
 Ghebevaik, J. Zero integrals on circles and characterizations of harmonic and analytic functions. 90c:44001
 Gupta, Kailash Chandra (with Agrawal, S. M.) Substitution theorems for integral transforms with symmetric kernels. 90c:44002
 Prasad, Y. N. (with Singh, V. P.) On a generalized multiple L -I transform. 90c:44001
 Siddiqui, Ashfaqullah On a new class of generalised integral transforms and their application in a boundary value problem of heat conduction. (Hindi. English summary) 90j:44001
 Singh, V. P. see Prasad, Y. N., 90c:44001

Items with secondary classifications in 44A05

- Bennell, R. P. (with Mason, J. C.) An application of orthogonal polynomials to the regularisation and smoothing of integral transforms. 90m:42032
 — (with Mason, J. C.) Continuous approximation methods for the regularization and smoothing of integral transforms. 90i:65236
 Dyn, N. (with Lubinsky, D. S.) Convergence of interpolation to transforms of totally positive kernels. 90h:41004
 Jenkins, W. Kenneth see Marshall, Daniel F.; et al., 90c:94007
 Kerr, Fiona H. see McBride, A. C., 90c:42022
 Lubinsky, D. S. see Dyn, N., 90h:41004
 Marshall, Daniel F. (with Jenkins, W. Kenneth; Murphy, J. J.) The use of orthogonal transforms for improving performance of adaptive filters. 90c:94007
 Mason, J. C. see Bennell, R. P., 90i:65236 and 90m:42032
 McBride, A. C. (with Kerr, Fiona H.) On Namias's fractional Fourier transforms. 90c:42022
 Murphy, J. J. see Marshall, Daniel F.; et al., 90c:94007
 Natterer, F. Mathematics and tomography. 90c:92014
 Nikolić-Despotović, Danica (with Pilipović, S.) Abelian theorem for the distributional Stieltjes transformation. 90a:46102
 Pilipović, S. see Nikolić-Despotović, Danica, 90a:46102
 Saitoh, Saburo ★ Theory of reproducing kernels and its applications. 90f:46045

44A10 Laplace transform

- Akhaury, S. K. (with Kumar, Vijay) Analyticity theorem for a distributional generalized Laplace transform. 90m:44001
 — (with Kumar, Vijay) Final value type Abelian theorems for a distributional generalized Laplace transform. 90d:44001
 Berg, Lothar On Danielj's class of distribution functions. 90k:44001

- Bakis, K. A. A multidimensional Tauberian theorem with a remainder for the Laplace transform. (Russian) 90d:44002
 Debnath, Joyati (with Debnath, Narayan Chandra) Theorems on association of variables in multidimensional Laplace transforms. 90j:44001
 Debnath, Narayan Chandra see Debnath, Joyati, 90j:44001
 Heinig, H. P. (with Sinnamoni, Gordon) Laplace representation of functions in mixed weighted Bergman spaces. 90i:44001
 Karunakaran, V. Laplace transform and boundary value distributions. (Not in MR)
 Krishna, J. Gopala (with Usha Sree Devi, M.) On a nonstandard approach to asymptotics of Laplace transforms and to Watson's lemma. 90c:44002
 Kumar, Vijay see Akhaury, S. K., 90d:44001 and 90m:44001
 Leray, J. La transformation de Laplace-d'Alembert. [The Laplace-d'Alembert transform] 90c:44003
 Medvedskii, R. I. Inversion of the Laplace transform using asymptotes of the original. (Russian) 90j:44002
 Neamtu, D. (with Neamtu, N.) About some properties of Laplace-Dirichlet. (Romanian summary) (see 90a:00010)
 Neamtu, N. see Neamtu, D., (90a:00010)
 Ning, Ya Qiu Some additional results on the table of Laplace transforms. (Chinese. English summary) 90m:44002
 Omei, Edward (with Willekens, E.) Abelian and Tauberian theorems for the Laplace transform of functions in several variables. 90j:44003
 Razzaghi, Mehdi see Razzaghi, Mohsen, 90m:44003
 Razzaghi, Mohsen (with Razzaghi, Mehdi) Functional approximation for inversion of Laplace transforms via polynomial series. 90m:44003
 Rippl, Jiri Some generalisations of integral transforms and their use in applied dynamics research. 90a:44001
 Sinnamoni, Gordon see Heinig, H. P., 90i:44001
 Tiwari, A. K. On a distributional generalized Laplace transform. 90k:44002
 Usha Sree Devi, M. see Krishna, J. Gopala, 90c:44002
 Wang, Ping The $P(R)$ order of analytic functions defined by the Laplace-Stieltjes transform. (Chinese. English summary) 90m:44004
 Willekens, E. see Omei, Edward, 90j:44003

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- Agrawal, S. M. see Gupta, Kailash Chandra, 90c:44002
 Babakhanli, A. (with Dahiya, R. S.) Iterative Laplace transforms of two variables. 90m:44016
 Chaturvedi, V. K. see Goyal, A. N., 90b:46088
 Chernyav, V. A. see Pasechnik, L. P., (90a:00008)
 Dahiya, R. S. see Babakhanli, A., 90m:44016
 Dăng-Dinh Áng (with Lund, John R.; Stenger, Frank) Complex variable and regularization methods of inversion of the Laplace transform. 90c:65180
 Duran, Antonio J. The Stieltjes moments problem for rapidly decreasing functions. 90b:44009
 Geluk, J. L. Asymptotically balanced functions and the asymptotic behaviour of the complementary function and the Laplace transform. 90c:26004
 Gilliam, David (with Schulenberg, J. R.; Lund, John R.) Spectral representation of the Laplace and Stieltjes transforms. (Portuguese summary) 90c:47021
 Goyal, A. N. (with Chaturvedi, V. K.) On generalized transcendental functions and distributional transforms. 90b:46088
 Gupta, Kailash Chandra (with Agrawal, S. M.) Substitution theorems for integral transforms with symmetric kernels. 90c:44002
 Gupta, O. P. see Saxena, Ram Kishore; et al., 90j:26009
 Györfi, L. (with Ladas, G.; Pakula, L.) On oscillations of unbounded solutions. 90b:34102
 Komatsu, Hikosaburo Operational calculus, hyperfunctions and ultradistributions. 90c:44005
 — Laplace transforms of hyperfunctions: another foundation of the Heaviside operational calculus. 90c:46101
 — Laplace transforms of hyperfunctions. 90b:46081
 Korsunskii, S. V. see Selezov, I. T., 90c:65182
 Kumbhat, R. K. see Saxena, Ram Kishore; et al., 90j:26009
 Ladas, G. see Györfi, L.; et al., 90b:34102
 Lund, John R. see Gilliam, David; et al., 90c:47021 and Dăng-Dinh Áng; et al., 90c:65180
 Pakula, L. see Györfi, L.; et al., 90b:34102
 Pasechnik, L. P. (with Chernyav, V. A.) The Bellman method for the inversion of the Laplace transform. (Russian) (see 90a:00008)
 Prabha, K. Solving integral equation of n -variables by \mathcal{L} and \mathcal{L}^{-1} operators. 90m:45014
 Pyanylo, Ya. D. Approximate inversion of the Laplace transform of discontinuous originals and its application to the solution of a coupled thermal shock problem. (Russian) 90m:65219
 Raina, R. K. see Srivastava, Hari M., 90j:45002
 Ryabov, V. M. Properties of quadrature formulas that can be applied to the inversion of the Laplace transform. (Russian) 90b:65212
 — Properties of quadrature formulas of the highest degree of accuracy that can be applied to inversion of the Laplace transform. (Russian) 90b:65213
 Saxena, Ram Kishore (with Gupta, O. P.; Kumbhat, R. K.) On two-dimensional Weyl fractional calculus. 90j:26009
 Schulenberg, J. R. see Gilliam, David; et al., 90c:47021
 Selezov, I. T. (with Korsunskii, S. V.) Numerical inversion of the Laplace transformation on the basis of the Fourier-Bessel expansions. (Russian. English summary) 90c:65182
 Singh, Rajpal (with Singhal, Mukesh) Theorems connecting different integral transforms. 90a:44006
 Singhal, Mukesh see Singh, Rajpal, 90a:44006
 Srivastava, Hari M. (with Raina, R. K.) Solution of a certain multiple integral equation. 90j:45002
 Stadler, Albert Ein Tauber-Satz mit Restglied für die Laplace-Transformation. [A Tauberian theorem with remainder term for the Laplace transformation] 90c:40007
 Stanomir, D. An entire function approach to harmonic synthesis. I. General results. 90d:42015a

- An entire function approach to harmonic synthesis. II. Removable poles located at $z = 0$. 90d:42015b
 Stenger, Frank *see* Dàng-Dinh Áng; et al., 90e:65180

44A15 Special transforms (Legendre, Hilbert, etc.)

- All, Muhammad Abdallah *see* Koh, E. L.; et al., 90e:44003
 Bentancor, J. J. (with Fariha, J. C.) A modified operator of the Hankel transformation on certain spaces of functions. (Spanish summary) 90i:44002
 Betancor, Jorge J. The Hankel-Schwartz transform for function of compact support. 90d:44003
 — On a variant of the Meijer integral transformation. 90a:44002
 — On the boundedness and the range of the Lommel-Maitland transformation. 90j:44005
 — A mixed Parseval's equation and a generalized Hankel transformation of distributions. 90g:44002
 — A generalized Hankel transformation. 90j:44004
 Brychkov, Yu. A. *see* Prudnikov, A. P.; et al., 90m:44010
 Bybliv, O. Ya. (with Lenuk, M. P.) Hankel integral transforms of the first kind for piecewise-homogeneous segments with an application to problems in mathematical physics. (Russian) 90b:44001
 Chaudhary, M. S. *see* Patil, P. A., 90b:44003; Kawade, L. J., 90d:44004 and Malgonde, S. P., 90m:44007
 Deeba, E. Y. (with Koh, E. L.) Operational calculus for the continuous Legendre transform with applications. 90m:44005
 — *see also* Koh, E. L.; et al., 90e:44003
 Denisjuk, A. *see* Palamodov, Victor, 90i:44004
 Fariha, J. C. *see* Bentancor, J. J., 90i:44002
 Fill, James Allen The Radon transform on Z_p . 90m:44006
 Ghosh, Badal Chandra The n -dimensional distributional complex Hankel and I -transformation of generalized functions. 90b:44002
 Izem, Steven H. Inversion of the k -plane transform by orthogonal function series expansions. 90c:44004
 Kawade, L. J. (with Chaudhary, M. S.) On distributional Laplace-Hankel transformation and its application. 90d:44004
 Keisner, Fritz Inversion of k -plane transforms and applications in computer tomography. 90j:44006
 Kijima, Masaaki *see* Sumita, Ushio, 90m:44014
 Koh, E. L. (with Deeba, E. Y.; Ali, Muhammad Abdallah) On the generalized Meijer transformation. 90e:44003
 — *see also* Deeba, E. Y., 90m:44005
 Lenuk, M. P. *see* Bybliv, O. Ya., 90b:44001
 Liang, You Dong *see* Li, Wei, 90j:44007
 Li, Wei (with Liang, You Dong) The envelope properties of rational B -spline curves and surfaces. (Chinese. English summary) 90j:44007
 Madych, W. R. (with Solomon, D. C.) A range theorem for the Radon transform. 90i:44003
 Malgonde, S. P. (with Chaudhary, M. S.) A representation of Hankel type transformable generalized functions. 90m:44007
 Marichev, O. I. *see* Prudnikov, A. P.; et al., 90m:44010
 Méndez Pérez, José Manuel The modified Dini's series and the finite Hankel-Schwartz integral transformation. 90b:44003
 Moses, H. E. (with Prosser, R. T.) A refinement of the Radon transform and its inverse. 90e:44003
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44A20 Transforms of special functions

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44A30 Multiple transforms

- Babakhanli, A. (with Dahiya, R. S.) Iterative Laplace transforms of two variables. 90m:44016
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- Kruzhakov, O. A. A generalization of the Young-Fenchel transform that is consistent with a multidimensional calculus of variations. (Russian) 90d:49009
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44A35 Convolution

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- Barnstein, Albert, II Some topics in symmetrization. 90b:26022
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 Kerman, R. A. Pointwise convergence approximate identities of dilated radially decreasing kernels. 90a:42015
 Kuznetsov, Sergei Vladimirovich Extension of the concept of convolution in the spaces $B_{\infty, \lambda}$ of generalized functions of slow growth. (Russian) 90m:46064
 Lenz, Burkhard On multidimensional Lebesgue-Stieltjes convolution operators. 90k:41032
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 Rodríguez, J. Operational calculus through the convolutional method for the Bessel operator. 90b:44009
 Saleh, Abdullah Algebraic characterization of \mathcal{H}_p ; $p \geq 1$. 90b:46070

44A40 Calculus of Mikusiński and other similar operational calculi

- Boehme, Thomas K. Some comments on the Burzyk-Paley-Wiener theorem for regular operators. 90b:44006

- Komatsu, Hikosaburo Operational calculus, hyperfunctions and ultradistributions. 90k:44005

- (Mashanov, V. I.) *see* Yosida, Kôzoku, 90k:44008
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 Nikitin, O. L. (with Suleimenov, Zh. S.) Application of operational calculus for the discretization of ordinary differential equations. (Russian) 90b:44001
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 Zhou, Zhi Hu A relation equivalent to convergence for Mikusiński operators. (Chinese. English summary) 90b:44004

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 — *see also* Pap, Endre, 90a:35003
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44A45 Classical operational calculus

- Rodríguez, J. Operational calculus through the convolutional method for the Bessel operator. 90k:44009
 Wysocki, H. The result derivative; distributive results. 90m:44017

44A60 Moment problems

- Aleksandrov, E. L. (with Il'mushkin, G. M.) Moment operator problems. (Russian) *see* 90c:00006
 Antolin, J. Inverse problems, moment theory and the maximum entropy formalism. 90m:44018
 Chandler, J. D., Jr. Moment problems for compact sets. 90c:44007
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- Aleksandrov, E. L. *see* Il'mushkin, G. M., 90g:47028
 Atanasiu, Dragu Fonctions moment sur un semi-groupe commutatif. (English summary) [Moment functions on a commutative semigroup] 90b:43009
 Basu, Sankar Padé approximants to matrix Stieltjes series: convergence and related properties. 90j:41031
 Bekker, M. B. On continuation from a half-axis of a continuous positive definite generalized Toeplitz kernel. (Russian. English summary) 90b:47031
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 Bolotin, V. A. Descriptions of solutions of a degenerate moment problem on the axis and the halfaxis. (Russian) 90g:30037
 Chihara, T. S. Hamburger moment problems and orthogonal polynomials. 90b:42035
 Danielyan, E. A. (with Tatalyan, K. R.) The Chebyshev extremal problem on majorized classes of distributions with moments from a parallelepiped. (Russian) 90f:60032
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Woerdeman, H. J. *see* Gohberg, I.; et al., 90c:47022

45-XX Integral equations

45-01 Elementary exposition; textbooks

Hackbusch, W. *★* Integralgleichungen. (German) [Integral equations] 90c:45001
Hochstadt, Harry *★* Integral equations. 90b:45001

Items with secondary classifications in 45-01

(Embarek, Djilali) *see* Smirnov, Vladimir Ivanovich, 90a:00002c
Smirnov, Vladimir Ivanovich *★* Lehrgang der höheren Mathematik. Teil IV/1. (German)
[Course in higher mathematics. Part IV/1] 90k:00003a
— *★* Cours de mathématiques supérieures. Tome IV. Première partie. (French) [Course in higher mathematics. Vol. IV. Part One] 90k:00002c
Vladimirov, V. S. *★* Уравнения математической физики. (Russian) [The equations of mathematical physics] 90a:00009

45-02 Advanced exposition (research surveys, monographs, etc.)

Gorenflo, Rudolf Nonlinear Abel integral equations: applications, analysis, numerical methods. 90c:45002

Items with secondary classifications in 45-02

Kress, Rainer *★* Linear integral equations. 90j:45001
(Myskhis, A. D.) *see* Petrovskii, I. G., 90a:34003
(Oleinik, O. A.) *see* Petrovskii, I. G., 90a:34003
(Petrova, Irina) *see* Petrovskii, I. G., 90a:34003
Petrovskii, I. G. *★* Théorie des équations différentielles ordinaires et des équations intégrales. (French) [Theory of ordinary differential equations and integral equations] 90a:34003

45-04 Explicit machine computation and programs (not the theory of computation or programming)

Shabylin, Eugene Integral equation with hidden eigenparameter solver: REDUCE + FORTRAN in tandem. (see 90i:68007)

45-06 Proceedings, conferences, etc.

(Imanaliyev, M. I.) *see* Studies in integro-differential equations, 90a:45001

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Studies in integro-differential equations *★* Исследования по интегро-дифференциальным уравнениям. Вып. 21. (Russian) [Studies in integro-differential equations. No. 21] 90a:45001

Items with secondary classifications in 45-06

(Dafermos, C. M.) *see* Differential equations, 90f:00003
(De Prato, G.) *see* Volterra integrodifferential equations in Banach spaces and applications, 90d:00047
(Iannelli, M.) *see* Volterra integrodifferential equations in Banach spaces and applications, 90d:00047
(Ladas, G.) *see* Differential equations, 90f:00003
(Papanicolaou, G.) *see* Differential equations, 90f:00003
(Tuzlyuk, Z. B.) *see* Integral operators and equations, 90a:00005

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Conference:

EQUADIFF *★* Differential equations. 90f:00003
Volterra Integrodifferential Equations in Banach Spaces and Applications *★* Volterra integrodifferential equations in Banach spaces and applications. 90d:00047
Differential equations *★* Differential equations. 90f:00003
Integral operators and equations *★* Интегральные операторы и уравнения. (Russian) [Integral operators and equations] 90a:00005
Trento *★* Volterra integrodifferential equations in Banach spaces and applications. 90d:00047
Volterra integrodifferential equations in Banach spaces and applications *★* Volterra integrodifferential equations in Banach spaces and applications. 90d:00047
Xanthi *★* Differential equations. 90f:00003

45A05 Linear integral equations

Agrawal, R. K. *see* Joshi, B. K., (Not in MR)
Ispai, Mihai The solutions of some functional equations applicable in technique. (Romanian summary) 90c:45001
Joshi, B. K. (with Agrawal, R. K.) On a generalised Poisson integral equation. (Hindi. English summary) (Not in MR)
Khusanov, D. Kh. Two-sided solutions of linear inhomogeneous systems. (Russian) (see 90d:00026)
Kress, Rainer *★* Linear integral equations. 90j:45001

Lange, Charles G. (with Smith, Donald Ray) Singular perturbation analysis of integral equations. 90m:45001

Nimato, Kh. An integral equation of the first kind. 90b:45001

Raina, R. K. *see* Srivastava, Hari M., 90j:45002

Smith, Donald Ray *see* Lange, Charles G., 90m:45001

Srivastava, Hari M. (with Raina, R. K.) Solution of a certain multiple integral equation. 90j:45002

Items with secondary classifications in 45A05

Palyaev, V. F. Bounded and almost periodic solutions of linear integral equations. I. 90j:47068

Rippl, J.H. Some generalisations of integral transforms and their use in applied dynamics research. 90a:44001

Shishina, V. T. Analytic solutions of an integral equation. (Russian) (see 90d:00046)

45B05 Fredholm integral equations

Bertone, M. (with Boccacci, P.; Brianzi, P.; Pike, E. R.) Inverse problems in confocal scanning microscopy. 90c:45001

Boccacci, P. *see* Bertone, M.; et al., 90c:45001

Brianzi, P. *see* Bertone, M.; et al., 90c:45001

Cochran, James A. On an integral equation with a Bessel function kernel. 90b:45002

Domanski, E. N. (with Plichko, A. N.) On a generalization of a theorem of Picard on the solvability of a Fredholm integral equation of the first kind. (Russian) 90b:45003

Gahovyan, A. G. Estimates for solutions of some integral equations on an interval. (Russian. English and Armenian summaries) 90c:45002

Garey, L. E. (with Gilmore, K. A.; Gladwin, C. J.) Direct methods for second order Fredholm integro-differential equations with two point boundary conditions. 90c:45001

Gautsien, A. K. On a class of Fredholm integral operators—asymptotic expansions of solutions and eigenfunctions. 90c:45002

— *see also* Olmstead, W. E., 90c:45003

Gilmore, K. A. *see* Garey, L. E.; et al., 90c:45001

Gladwin, C. J. *see* Garey, L. E.; et al., 90c:45001

Groetsch, C. W. Convergence analysis of a regularized degenerate kernel method for Fredholm integral equations of the first kind. 90m:45002

Guilpin, Ch. *see* Guy, J.; et al., 90a:45002

Guy, J. (with Guilpin, Ch.; Sales, A.) Solving finite boundaries integral equations related to x-ray scanners. 90a:45002

Halder, Nassar H. S. Approximate double series solution to certain Fredholm integral equations of the first kind. 90m:45003

Jain, D. L. *see* Sampath, C., 90a:45003

Moret, Igor (with Omari, P.) An iterative variant of the degenerate kernel method for solving Fredholm integral equations. 90j:45003

Olmstead, W. E. (with Gautsien, A. K.) Asymptotic solution of some singularly perturbed Fredholm integral equations. 90c:45003

Omari, P. *see* Moret, Igor, 90j:45003

Pike, E. R. *see* Bertone, M.; et al., 90c:45001

Plichko, A. N. *see* Domanski, E. N., 90b:45003

Sales, A. *see* Guy, J.; et al., 90a:45002

Sampath, C. (with Jain, D. L.) On solution of the integral equations for the potential problems of two circular strips. 90a:45003

Schneider, Claus On weakly singular integral equations of the second kind. 90b:45004
Wisotzki, C. Behandlung Fredholmscher Integralgleichungen mit schwachen Singularitäten und Unstetigkeiten erster Art in den Kernfunktionen. (English and Russian summaries) [Treatment of Fredholm integral equations with weak singularities and discontinuities of the first kind in the kernel functions] 90c:45001

Items with secondary classifications in 45B05

Abramowicz, John Syntactic methods for recursive equations and applications to differential equations. 90b:00025

Alimov, Sh. A. (with Shirinkulov, T. Sh.) Solution of contact problems in creep theory. 90i:73092

Cubillos, Pedro O. Eigenvalue problems for Fredholm integral operators. 90c:65187

Dmitriyev, V. I. (with Zakharov, E. V.) *★* Интегральные уравнения в краевых задачах электродинамики. (Russian) [Integral equations in boundary value problems of electrodynamics] 90b:78001

Ebanoidze, T. A. A singular integral equation. (Russian) 90b:45020

Evans, David J. (with Rahma, A. M. S.) The numerical solution of Fredholm integral equations on parallel computers. 90c:65159

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Gilzow, V. An integral equation method for the time-harmonic Maxwell equations with boundary conditions for the normal components. 90c:78007

Guo, Da Jun Multiple solutions of nonlinear Fredholm integral equations in Banach spaces. 90c:45003

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- Micks, A. (with Wisotzki, C.) Lösung von Fredholmischen Integralgleichungen mit unstetigen Kernen. (English and Russian summaries) [Solution of Fredholm integral equations with discontinuous kernels] 90d:65229
- Murugan, Viorica Basic problem for Maia-Perov's fixed point theorem. 90a:54112
- Neubauer, A. An a posteriori parameter choice for Tikhonov regularization in the presence of modeling error. 90d:65108
— see also King, J. T., 90d:65107
- Rahma, A. M. S. see Evans, David J., 90c:65159
- Richter, Gerhard Random Fredholm integral equations of the second kind with degenerate kernels. II. Bounds for probabilities. 90j:65160
- Röden, R. On the use of optimal linear filtering for the solution of ill-posed problems. (Russian. English and Estonian summaries) 90i:93128
- Rundell, William Determining the birth function for an age structured population. (French summary) 90b:92055
- Saaty, T. L. (with Vargas, Luis G.) Dirac distributions and threshold firing in neural networks. 90c:92034
- Shaw, R. E. see Graham, I. G.; et al., 90b:65247
- Shirinkulov, T. Sh. see Alimov, Sh. A., 90i:73092
- Shishkin, G. A. Formulation and solution of linear boundary value problems for Fredholm integro-differential equations with deviating argument. (Russian) (see 90a:90007)
- Shlepakov, L. N. A method for solving linear Fredholm integral equations. (Russian) 90b:65244
- Spence, A. see Graham, I. G.; et al., 90b:65247
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45C05 Eigenvalue problems [see also 34B25, 35Pxx, 45P05]

- Cochran, James A. Refined eigenvalue estimates in the case of Lipschitz continuity. 90j:45004
- Dellwae, David R. Accelerated spectral refinement with applications to integral operators. 90j:45005
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- Amer, S. M. see Saleh, M. H., 90b:45030
- Azhar, M. A method for the approximate solution of the eigenvalue problem for completely continuous operators. (Russian. Tajiki summary) 90b:47046
- Cabillon, Pedro O. Eigenvalue problems for Fredholm integral operators. 90c:65187
- Gantsev, A. K. On a class of Fredholm integral operators—asymptotic expansions of solutions and eigenfunctions. 90d:45002
- Han, Qi Heng The properties of the spectra of a class of nonlinear integral equations. (Chinese. English summary) (Not in MR)
- Isomkulov, S. A. (with Lakaev, S. N.) The discrete spectrum of the one-dimensional Friedrichs model. (Russian) 90a:45009
- Kopylov, Yu. N. ★ Алгоритмы статистического моделирования для расчета решения и его возмущения в задаче отыскания минимального собственного значения оператора Лапласа. (Russian) [Statistical modeling algorithms for the calculation of the solution and its perturbation in a problem of determining the minimal eigenvalue of the Laplace operator] 90d:65017
- Lakaev, S. N. see Isomkulov, S. A., 90a:45009
- Lei, Peng The eigenvalues of some integral matrices and their applications in transport theory. (Chinese. English summary) 90b:82110
- Makin, R. S. Properties of solutions and the completeness of eigenfunctions of an integro-differential system of equations of the dynamics of a reactor. 90a:47129
- Oehring, Charles Singular numbers of smooth kernels. II. 90c:47035
- Saleh, M. H. (with Amer, S. M.) Approximate solution of a certain class of nonlinear singular integral equations. 90b:45030
- Sobirov, I. The existence of an n th eigenvalue of integral operators with nonnegative kernels. (Russian. Tajiki summary) 90j:47070

45D05 Volterra integral equations [see also 34A10]

- Al-Janabi, A. S. A. On Volterra equations. (Arabic summary) 90g:45003
- Asanov, A. see Imanaliev, M. I., 90c:45006
- Ashirov, S. A. On the theory of solutions of nonlinear Volterra-Fredholm operator equations. (Russian) 90c:45003
- Atdaev, S. A class of integro-differential equations of Volterra type. (Russian. English summary) 90c:45004
- Bachurskaya, A. F. (with Tsalyuk, Z. B.) Some remarks on the continuability of solutions of Volterra equations. (Russian) 90c:45004
- Balachandran, Krishnan Existence of solution for nonlinear Volterra integral equation with deviating argument. 90d:45001
- Bushell, P. J. (with Okrasinski, W.) Uniqueness of solutions for a class of nonlinear Volterra integral equations with convolution kernel. 90m:45004
- Ch'ue, Hung I. A Levin type comparison theorem and oscillation results for Volterra-Stieltjes integral equations. 90c:45005
- Choi, U Jin (with MacCamy, R. C.) Fractional order Volterra equations with applications to elasticity. 90c:45004
- Dragomir, S. S. On some qualitative aspects for a pair of Volterra integral equations. I. 90i:45002
- Elaydi, S. (with Sivasundaram, S.) A unified approach to stability in integrodifferential equations via Liapunov functions. 90j:45006
- Hino, Yoshiyuki (with Murakami, Satoru) Periodic solutions of a linear Volterra system. 90m:45005
- Hu, Yue Ming Some problems of Volterra integro-differential equations. 90m:45006
- Imanaliev, M. I. (with Asanov, A.) Regularization, uniqueness and existence of the solution for Volterra integral equations of the first kind. (Russian) 90g:45006
- Kabanikhin, S. I. Regularization of Volterra operator equations of the first kind with a boundedly Lipschitz-continuous kernel. 90i:45003
- Karapetyants, N. K. Some classes of Volterra integral equations with a difference kernel. (Russian) 90g:45007
- MacCamy, R. C. see Choi, U Jin, 90c:45004
- Martynenko, Martiya D. (with Martynenko, Mikhailo D.) Volterra-type integral equations of the second kind. (Ukrainian. Russian summary) 90i:45004
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- Naubetova, Sh. A. Properties of solutions of Volterra integral equations of the first kind with variable prehistory. (Russian) 90b:45005
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- Ramazanov, M. I. Investigation of the spectrum of a singular Volterra integral equation. (Russian) (see 90b:90032)
- Sharipov, S. A Volterra integral equation of the first kind with a discontinuous right-hand side. (Russian) 90j:45007
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- Skrzypczak, Jerzy Second-order linearization method for nonlinear dynamic systems described by Volterra integral equations. (French, Russian and Polish summaries) 90a:45004
- Srazhidinov, A. Regularization of an integral equation of the first kind of Volterra type with imprecise data. (Russian) 90i:45006
- On the solution of a convolution Volterra integral equation of the first kind. (Russian) 90j:45008
- On the theory of the solvability of integral equations of the first kind of Volterra type. (Russian) (Not in MR)
- Tsalyuk, Z. B. see Bachurskaya, A. F., 90c:45004
- Valiakhmetov, A. T. see Volkodavov, V. F., 90b:45006
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- Zheng, Quan² Existence of solutions and comparison theorems for nonlinear Volterra integral equations in Banach spaces. (Chinese. English summary) 90i:45007
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- Alimov, Sh. A. (with Shirinkulov, T. Sh.) Solution of contact problems in creep theory. 90i:73092
- Antonishin, I. O. On the asymptotic behavior of a nonlinear Volterra integro-differential equation. (Russian) 90c:45013
- Arendt, W. (with Kellermann, H.) Integrated solutions of Volterra integrodifferential equations and applications. 90b:47068
- Barbanti, Luciano Controllability and approximate controllability for linear integral Volterra-Stieltjes equations. 90i:93013
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- Blekhin, A. M. (with Mishchenko, E. V.) On the determination of the solutions of a second-order equation. (Russian) 90c:78001
- Brunner, Hermann Collocation methods for nonlinear Volterra integro-differential equations with infinite delay. 90m:65227
- Burton, Theodore Allen (with Hutson, V.) Repellers in systems with infinite delay. 90d:58141
- Cannon, John R. (with Lin, Yamping) Smooth solutions for an integro-differential equation of parabolic type. 90c:45012
- Clément, Philippe (with Mitidieri, Enzo) Qualitative properties of solutions of Volterra equations in Banach spaces. 90c:45017
- Corduneanu, C. Some global problems for Volterra functional-differential equations. 90b:34103
- Crisai, M. R. (with Jackiewicz, Z.; Russo, E.; Vecchio, A.) Global stability condition for collocation methods for Volterra integral equations of the second kind. 90m:65229
- Desch, W. (with Miller, Richard K.) Exponential stabilization of Volterra integral equations with singular kernels. 90f:93050
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- Dragomir, S. S. (with Ionescu, Nicoleta M.) The Wendroff type lemmas and applications. III. 90b:26026
- Dzhgarkava, D. T. Volterra-Stieltjes type equations with an integral with respect to a finitely additive set function. (Russian. English and Georgian summaries) 90c:34004
- Eggmont, P. P. B. Uniform error estimates of Galerkin methods for monotone Abel-Volterra integral equations on the half-line. 90b:65216
- Globovnik, J. Zero integrals on circles and characterizations of harmonic and analytic functions. 90c:44001
- Grimmer, R. (with Schappacher, W.) Integrodifferential equations in Banach spaces with infinite memory. 90c:45020
- Halvorsen, S. Gotskalk see Mingarelli, A. B., 90a:34002
- Hara, Tadayuki (with Yoneyama, Toshiaki; Itoh, Takashi) On the characterization of stability concepts of Volterra integro-differential equations. 90i:45005
- Hausding, Reiner Zur Diskretisierung und numerischen Lösung einer speziellen Faltungsgleichung. [On the discretization and numerical solution of a special convolution equation] 90m:65234
- Heard, Melvin L. (with Rankin, Samuel M., III) Weak solutions for a class of parabolic Volterra integrodifferential equations. 90c:45013

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- Huang, Qing Guang see You, Bing Li, 90b:34108
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- Ispas, Mihai The solutions of some functional equations applicable in technique. (Romanian summary) 90c:45001
- Ito, Kazufumi (with Kappel, F.) Approximation of infinite delay and Volterra type equations. 90c:65162
- Itoh, Takashi see Hara, Tadayuki; et al., 90k:45005
- Ivanovici, Marian On the asymptotic behavior of the solutions of a certain implicit Volterra integral equation. (Romanian summary) 90j:45027
- Jackiewicz, Z. see Crisci, M. R.; et al., 90m:65229
- Kantorovitch, Shmuel Volterra systems of operators. 90a:47041
- Kappel, F. see Ito, Kazufumi, 90c:65162
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- Khromov, A. P. Generating functions of Volterra integral operators. (Russian) (see 90i:00006)
- Khasanov, D. Kh. Principal two-sided solutions of a linear integro-differential equation of Volterra type with infinite aftereffect. (Russian) 90c:45010
- Krisztin, T. (with Terjeki, J.) On the rate of convergence of solutions of linear Volterra equations. (Italian summary) 90f:45016
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- Luchka, A. Yu. (with Didyk, B. V.) Solution of linear Volterra integral equations of the second kind by the projection-iterative method based on the method of subdomains. (Russian) 90f:45017
- Malyshev, Igor Surface integrals approach to solution of some free boundary problems. II. 90c:35210
- Matsenko, P. K. see Vefimov, P. A., 90b:45031
- Miller, Richard K. see Desch, W., 90f:33050
- Mingarelli, A. B. (with Halvorsen, S. Gotskalk) ★ Nonoscillation domains of differential equations with two parameters. 90a:34002
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- Mitidieri, Enzo see Clément, Philippe, 90c:45017
- Noren, Richard Uniform L^1 behavior in a class of linear Volterra equations. 90b:45008
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- Papageorgiou, Nikolaos S. Existence and convergence results for integral inclusions in Banach spaces. 90b:45033
- Pulyaev, V. F. On the spectrum of Volterra operators. (Russian) 90f:47041
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- Reich, Simeon Integral equations, hyperconvex spaces and the Hilbert ball. 90d:47066
- Randell, William Determining the birth function for an age structured population. (French summary) 90b:92055
- Russo, E. see Crisci, M. R.; et al., 90m:65229
- Salakhitdinov, M. S. (with Urinov, A. K.) Properties of some operators of Volterra type. (Russian) 90c:47132
- (Samoilenko, A. M.) see Differential equations with a parameter, 90k:00018
- Schappacher, W. see Grimmer, R., 90i:45020
- Sforza, Daniela Parabolic integrodifferential equations with nonhomogeneous boundary conditions. 90d:45008
- Shampine, L. F. Solving Volterra integral equations with ODE codes. 90a:65282
- Shirinkulov, T. Sh. see Allimov, Sh. A., 90h:73092
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- Stark, Philip B. Strict bounds and applications. 90c:65195
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- Terjeki, J. see Krisztin, T., 90f:45016
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- Wang, Gao An Boundedness of solutions to a class of second-order differential equations. (Chinese. English summary) (see 90j:34001)
- The asymptotic behavior of solutions to linear Volterra integro-differential equations. (Chinese. English summary) (Not in MR)
- Wang, Ke Existence of periodic solutions to functional-differential equations. (Chinese) 90j:34103
- Wu, Jian Hong Globally stable periodic solutions of linear neutral Volterra integro-differential equations. 90f:45012
- Yoneyama, Tohshiki see Hara, Tadayuki; et al., 90k:45005
- You, Bing Li (with Huang, Qing Guang) Fundamental theory of a class of functional equations and its application in the study of Kneser's theorem. 90b:34108
- Zhang, Shi Sheng (with Bian, Wen Ming) Fixed point indexes and its applications to nonlinear integral equations modelling infectious diseases. 90g:47106

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45Exx Singular integral equations [see also 30E20, 30E25, 44A15, 44A35]

Items with secondary classifications in 45Exx

- Davydov, A. G. see Zakharov, E. V.; et al., 90i:31010
- Khaleeva, I. V. see Zakharov, E. V.; et al., 90i:31010
- Osiv, P. N. see Savruk, M. P.; et al., 90k:73007
- Prokopcuk, I. V. see Savruk, M. P.; et al., 90k:73007
- Savruk, M. P. (with Osiv, P. N.; Prokopcuk, I. V.) ★ Численный анализ в плоских задачах теории трещин. (Russian) [Numerical analysis in planar problems in crack theory] 90k:73007
- Zakharov, E. V. (with Davydov, A. G.; Khaleeva, I. V.) Integral equations with Hadamard-type kernels in diffraction problems. (Russian) 90i:31010

45E05 Integral equations with kernels of Cauchy type [see also 35J15]

- Alekhn, A. G. On the solvability of a characteristic singular integral equation with an infinite index. 90f:45003
- Avazashvili, N. D. On the solution of a characteristic system of singular integral equations. (Russian) 90b:45007
- Babaev, Arif Alligeldarovich (with Musaev, B. I.) Approximate solution of singular integral equations. (Russian) 90d:45002
- Bitsadze, A. V. Integral equations of the linear theory of contact problems. 90b:45008
- Integral equations of the first kind with singular kernels that are generated by the Schwarz kernel. 90g:45009
- Bulanov, A. G. Solution of an equation of contact interaction. (Russian. English summary) 90i:45008
- Driscoll, Michael A. (with Venturino, Ezio) A variational technique for the solution of the singular integral equations over the real line using enriched spaces. 90b:45009
- (with Venturino, Ezio) On the consistency of numerical solutions of singular integral equations of the second kind with negative index using Jacobi polynomials. 90b:45005
- Du, Jin Yuan Singular integral equations with Hilbert kernel and some associated systems of orthogonal trigonometric polynomials. (Chinese. English summary) 90b:45010
- Dyn'kin, E. M. (with Emel'yanov, A. P.) A boundary integral equation of elasticity theory on a contour with a cusp. (Russian. English summary) 90b:45011
- Elliott, David Projection methods for singular integral equations. 90m:45007
- Emel'yanov, A. P. see Dyn'kin, E. M., 90b:45011
- Gonsalves, I. R. see Martin, Paul Andrew; et al., (Not in MR)
- Huang, Xin Min On two-dimensional singular integral equations. (Chinese) 90d:45003
- On the two-dimensional singular integral equations. 90b:45012
- Lifanov, I. K. Singular solutions of singular integral equations and flow ejecting for an arbitrary contour. 90b:45009
- Martin, Paul Andrew (with Rizzo, F. J.; Gonsalves, I. R.) On hypersingular boundary integral equations for certain problems in mechanics. (Not in MR)
- Musaev, B. I. see Babaev, Arif Alligeldarovich, 90d:45002
- Nguyễn Văn Mậu Solvability in closed form of a class of complete singular integral equations. 90b:45013
- Paataashvili, V. A. On the Noethericity of linear singular integral equations in weighted Lebesgue spaces. (Russian. English and German summaries) 90f:45010
- Plaksa, S. A. The Riemann boundary value problems with an oscillating free term, and singular integral equations on a rectifiable curve. (Russian) 90c:45006
- Singular integral equations on a rectifiable curve. (Russian) 90m:45008
- Rasol'ko, G. A. Integral equations of the first kind that contain integrals with multiple Cauchy kernels. (Russian. English summary) 90b:45014
- see also Sheshko, M. A., 90f:45004
- Rizzo, F. J. see Martin, Paul Andrew; et al., (Not in MR)
- Sheshko, M. A. (with Rasol'ko, G. A.) Exact and approximated formulas for the inversion of a multiple integral with Cauchy kernels. (Russian) 90f:45004
- Venturino, Ezio see Driscoll, Michael A., 90b:45009 and 90b:45005
- Zeng, Yue Sheng A class of hypercomplex singular integral equations on rectifiable closed curves. (Chinese. English summary) 90b:45015
- Zhuzhakov, E. Solution of a singular integral equation with a multidimensional singular Bergman integral operator. (Russian) 90f:45005

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- Bialecki, Bernard Sinc-Nyström method for numerical solution of a dominant system of Cauchy singular integral equations given on a piecewise smooth contour. 90m:65225
- Can, Mehmet see Khan, Tariq M., 90f:34011
- Cormack, Donald E. see Vijayakumar, Sinnathurai, 90j:65039
- Dodokhova, G. V. A two-dimensional analogue of the Riemann boundary value problem with an infinite index. (Russian) 90d:30115
- Ebanoidze, T. A. A singular integral equation. (Russian) 90b:45020
- El Sheikh, M. G. (with Gad-Allah, H. E.) On the reduction of Dirichlet-Newton problems to wing equations. 90c:35136
- Evushenko, A. A. (with Opanasovich, V. K.) A numerical method for solving singular integral equations. (Russian) 90m:65231
- Fan, Tian You Analysis of moving and growing crack coupled by nonlinear deformation. 90c:73102
- Feldman, I. A. see Krupnik, N. Ya.; et al., 90m:47014
- Gabdulkhaev, B. G. see Veler, G. D., 90c:41001
- Gad-Allah, H. E. see El Sheikh, M. G., 90c:35136
- Gerasoulis, Apostolos Nyström's iterative variant methods for the solution of Cauchy singular integral equations. 90b:65193
- Grodskii, S. M. Matrix singular integral operators with infinite index. (Russian) 90a:47043
- Guo, Jian Lian The Poincaré problems for doubly quasiperiodic analytic functions. (Chinese. English summary) 90a:30117

- Isakhanov, R. S. *see* Bantsuri, R. D., 90d:73011
- Jentsch, Lothar (with Meyer, Christian) Ueber eine Klasse singularer Integralgleichungen mit zwei feststehenden Singularitäten. [On a class of singular integral equations with two fixed singularities] 90d:47090
- Kazantzakis, J. G. *see* Theocaris, P. S., 90d:73017
- Khan, Tariq M. (with Can, Mehmet) On the initial value problems for the second Painlevé equation. (Turkish summary) 90f:34011
- Krupnik, N. Ya. (with Markus, A. S.; Fedman, I. A.) On the norm of a linear combination of projectors in a Hilbert space. (Russian) 90m:47014
- La, Jian Ke On crack problems in an infinite plane consisting of three different media. 90g:73185
- Markus, A. S. *see* Krupnik, N. Ya.; et al., 90m:47014
- McLean, William Hölder estimates for the Cauchy integral on a Lipschitz contour. 90f:30050
- Melrose, G. (with Tweed, J.) Some triple trigonometric series. 90b:45019
- Meyer, Christian *see* Jentsch, Lothar, 90d:47090
- Ojansovitch, V. K. *see* Evtushenko, A. A., 90m:65231
- Prüssendorf, Siegfried (with Rathsfeld, A.) Quadrature methods for strongly elliptic Cauchy singular integral equations on an interval. 90m:65241
- Numerische Behandlung singularer Integralgleichungen. [Numerical treatment of singular integral equations] 90f:65247
- Rathsfeld, A. A quadrature method for a Cauchy singular integral equation with a fixed singularity. 90m:65242
- *see also* Prüssendorf, Siegfried, 90m:65241
- Strizhkov, V. A. Asymptotic regularization of integral operators of the first kind with power singularity. 90f:45032
- Theocaris, P. S. (with Kazantzakis, J. G.) The spectra of some singular integral operators for solving three-dimensional boundary value problems. (Greek summary) 90b:73017
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- Verkhovod, D. B. A conjugation boundary value problem for solutions of a quasilinear Beltrami equation on compact Riemann surfaces. (Russian) 90a:30083
- Vijayakumar, Srinathurai (with Cormack, Donald E.) A new concept in near-singular integral evaluation: the continuation approach. 90f:65039
- Zhuananov, E. Solution of a system of singular integral equations with a multidimensional singular integral operator. (Russian) 90e:47053
- Zolotarevskii, V. A. The reduction method for the approximate solution of systems of singular integral equations with vanishing symbols on a closed Lyapunov contour. 90f:65182
- Convergence of the reduction method for singular integral equations on closed Lyapunov contours. (Russian) 90f:65253
- ### 45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [see also 47B35]
- Böttcher, Albrecht L. V. Mikhaev's conjecture in the theory of Wiener-Hopf determinants. (Russian) 90g:45010
- Burenkov, V. I. (with Dorofeev, I. F.; Pankratov, A. S.) Estimates for regularized solutions of equations of convolution type in spaces of functions with a noninteger order of differentiation. 90b:45016
- Chen, Zheng Hong (with Zhao, De Hui) An application of the differential characteristic of the convolution integral. (Chinese. English summary) (Not in MR)
- Dorofeev, I. F. *see* Burenkov, V. I.; et al., 90b:45016
- Ermakov, M. S. Minimax estimation of the solution of an ill-posed problem of convolution type. 90a:45001
- Heins, A. E. (with Pond, J. M.) The Sommerfeld half-plane problem revisited. IV. Variations on a theme of Carlson and Heins. 90b:45010
- Kaashoek, M. A. (with Schermer, J. N. M.) Inversion of convolution equations on a finite interval and realization triples. 90f:45011
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- Items with secondary classifications in 45E10
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- Anselone, Philip M. (with Sloan, I. H.) Numerical solutions of integral equations on the half line. II. The Wiener-Hopf case. 90f:65153
- Bustos, M. A. (with dos Santos, A. F.; Lebre, A. B.) On the Fredholm theory of Wiener-Hopf equations and the coupling method. 90d:47033
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- Doss, Rasul Two generalizations of Titchmarsh's convolution theorem. 90b:42019
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- van der Mee, C. V. M. *see* Ganchev, Alexander Christov; et al., 90a:47029
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- Rojas, Roberto G. Wiener-Hopf analysis of the EM diffraction by an impedance discontinuity in a planar surface and by an impedance half-plane. 90b:78015
- Rong, Er Qian A new solution for the space crack problem from hypersingular integral equation. 90b:73070
- dos Santos, A. F. (with Teixeira, F. S.) The Sommerfeld problem revisited: solution spaces and the edge conditions. 90m:78013
- *see also* Bustos, M. A.; et al., 90f:47033
- Schneider, Claus On weakly singular integral equations of the second kind. 90b:45004
- Shen, C. Y. (with White, Stevan R.) Theory of collectively compact operators applied to a one-dimensional electromagnetic scattering problem. 90c:78020
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- Sloan, I. H. *see* Anselone, Philip M., 90f:65153
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- Uba, P. Approximate solution of a weakly singular integral equation with a discontinuous coefficient. (Russian. English summary) 90f:65249
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- Wilson, Harold On Wiener-Hopf determinants. 90m:47044
- Zinnerhof, Peter Über die schnelle Lösung von hochdimensionalen Fredholm-Gleichungen vom Faltungstyp mit zahlentheoretischen Methoden. [On the fast solution of higher-dimensional Fredholm equations of convolution type by means of number-theoretic methods] 90c:65164
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- Chakrabarti, Alokmath Solution of two singular integral equations arising in water wave problems. 90f:45012
- Chernokozhin, E. V. *see* Il'inskiĭ, A. S., 90b:45002
- Il'inskiĭ, A. S. (with Chernokozhin, E. V.) Regularization of an integral operator with logarithmic singularities of the kernel. 90b:45002
- Items with secondary classifications in 45E99
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- Kamalyan, A. G. (with Nersisyan, A. B.) Integral operators of smooth transfer type. 90d:47095
- Karlovich, Yu. I. (with Litvinchuk, G. S.) Algebras of singular integral operators with discrete groups of shifts. (Russian) 90d:47055
- Kostykin, V. V. *see* Kvitsinskii, A. A.; et al., 90e:81253
- Kvitsinskii, A. A. (with Kostykin, V. V.; Merkur'ev, S. P.) Faddeev equations in the representation of a complete orbital moment. 90e:81253
- Litvinchuk, G. S. *see* Karlovich, Yu. I., 90d:47055
- Merkur'ev, S. P. *see* Kvitsinskii, A. A.; et al., 90e:81253
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45F05 Systems of nonsingular linear integral equations

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Chakrabarti, Aloknath. On some dual integral equations involving Bessel function of order one. 90g:45011

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— (with Trubchik, I. S.) Asymptotic properties of an approximate solution of a class of dual integral equations. 90b:45008

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Nychka, Douglas W. (with Cox, Dennis D.) Convergence rates for regularized solutions of integral equations from discrete noisy data. 90g:62087

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Aminov, R. Kh. (with Gabdulkhaev, B. G.) Approximate solution of the Ambartsumyan functional equation. 90b:45021

Czarniak, A. Sufficient conditions for the convergence of Volterra series for a certain class of nonlinear networks. (see 90m:94004)

Erbe, L. H. (with Kong, Qing Kai) Oscillation of Volterra-Stieltjes equations. 90m:45010

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Hofmann, Bernd. On a class of ill-posed integral equations with curious properties. (German summary) 90g:45012

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Robinson, P. D. (with Yuen, P. K.) Bivariational methods for Hammerstein integral equations. 90b:45013

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Ushakov, N. G. A class of nonlinear integral equations. (Russian) 90m:45012

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Vatrya, S. R. Existence of the solution of a nonlinear integro-differential equation. (Not in MR)

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Ariño, O. (with Kimmel, M.) Asymptotic behavior of a nonlinear functional-integral equation of cell kinetics with unequal division. 90b:92008

Atkinson, K. E. (with Potra, F. A.) The discrete Galerkin method for nonlinear integral equations. 90b:65244

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Komaritskii, A. L. Equations of convolution type with kernels that have a scalene power decrease. (Russian) 90j:45016

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Vardanyan, R. S. (with Engibaryan, N. B.) Solution of a class of integral equations of convolution type. (Russian) 90g:45013

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Appell, Jürgen (with Diallo, O. W.; Zabrejko, P. P.) On linear integro-differential equations of Barbashin type in spaces of continuous and measurable functions. 90a:45007

Atkinson, F. V. (with Haddock, J. R.) On determining phase spaces for functional-differential equations. 90f:45009

Baškova, S. O. (with Turbaev, B. E.) Periodic solutions of nonlinear integro-differential equations of Volterra type of unsolved form. (Russian) (see 90d:00007)

Baldzhanov, A. (with Esimov, T. A.) Asymptotic behavior of the solution of a boundary value problem for a nonlinear integro-differential equation with a small parameter multiplying the highest derivative. (Russian. Kazakh summary) 90c:45009

Bobochko, V. N. (with Novakovskaya, L. I.) Analogues of Fredholm theorems for a singularly perturbed integro-differential equation. (Russian) 90f:45014

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Bulstov, R. A. The method of equivalent correspondence in nonlinear integro-differential equations. (Russian) 90h:45006

Chizhev, V. E. On an integral equation for a binary correlation function. (Russian) 90m:45015

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Hara, Tadayuki (with Yoneyama, Toshiaki; Itoh, Takashi) On the characterization of stability concepts of Volterra integro-differential equations. 90h:45005

Igumov, V. P. Construction of solutions of systems of integro-differential equations in the form of Lie series. (Not in MR)

Imamkulov, N. (with Narmuratov, Kh.; Rabimov, A. S.) Solution of an initialization problem for a frozen second-order integro-differential equation with variable coefficients. (Russian) 90f:45010

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Khasanov, D. Kh. Principal two-sided solutions of a linear integro-differential equation of Volterra type with infinite aftereffect. (Russian) 90c:45010

Lakshmikantham, V. (with Liu, Xinzhi; Sathanantham, S.) Impulsive integro-differential equations and extension of Lyapunov's method. 90m:45016

Li, Yu Mei A class of nonlinear boundary value problems for fourth order integro-differential equations. (Chinese. English summary) (Not in MR)

Liu, Xinzhi see Lakshmikantham, V.; et al., 90m:45016

Nadirov, A. A. An integro-differential equation with an eigenvalue parameter in the boundary conditions. (Russian. English and Azerbaijani summaries) (Not in MR)

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- Aldner, S. On a method of two-sided approximations for systems of integro-differential equations. (Russian) (see 90d:90022)
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- Bainov, D. D. see Milusheva, S. D., 90b:65219
- Bardos, Claude Diffusion approximation and the Milne problem computation of the boundary layer. 90c:35130
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- Chan Khy-a Bong Normal solvability of linear differential operators with retarded argument in a space of functions bounded on the line. (Russian. Tajiki summary) 90d:47052
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- Derbenev, V. A. On the problem of the asymptotic behavior of solutions of integro-differential equations with a difference kernel. (Russian) 90c:45018
- Desch, W. (with Grimmer, R.; Schappacher, W.) Propagation of singularities by solutions of second order integrodifferential equations. 90f:45029
- Domoshnitskii, A. I. Preserving the sign of the Green function of a two-point boundary value problem for an n th-order functional-differential equation. 90b:34047
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- Helmi, M. S. see Shoaib, A. M., 90c:85008
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- Milusheva, S. D. (with Bainov, D. D.) A projection-iterative method for solving the periodic problem for integrodifferential equations with impulse effect. 90b:65219
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- Acquistapace, Paolo (with Terreni, Brunello) Quasilinear parabolic integrodifferential systems with fully nonlinear boundary conditions. 90j:45021
- Almatov, K. Singular solutions of a singular integro-differential equation. (Russian) 90c:45013
- Caflich, Russel E. Long time existence and singularity formation for vortex sheets. (see 90c:76040)
- Cannon, John R. (with Lin, Yanping) Smooth solutions for an integro-differential equation of parabolic type. 90c:45012
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- Devkin, V. I. A criterion for the solvability of a boundary value problem for the transport equation and some of its corollaries. (Russian) 90b:45011
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- Kozmanov, M. Ya. An existence theorem for the solution of a nonlinear system of equations of nonstationary spectral radiation transport. (Russian) 90c:45011
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- Polewczak, Jacek New estimations of the nonlinear Boltzmann operator and their application to existence theorems. 90c:45014
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- Yin, Hong Ming The classical solutions for nonlinear parabolic integrodifferential equations. 90m:35215
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- Zhidkov, E. P. (with Nikonov, E. G.; Khoromskii, B. N.) Asymptotic representation of solutions of a spectral problem for an integro-differential operator on a semi-axis. (Russian) 90c:47092
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45L10 Numerical approximation of solutions {For numerical analysis, see 65R20.}

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- Martin, Paul Andrew (with Rizzo, F. J.) On boundary integral equations for crack problems. 90c:73104
- Norbury, John (with Stuart, A. M.) Corrigendum: "Volterra integral equations and a new Gronwall inequality. I. The linear case" [Proc. Roy. Soc. Edinburgh Sect. A 106 (1987), no. 3-4, 361-373; MR 88m:45004]. 90c:45011
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- Gel'man, A. G. On the asymptotic behavior of the solutions of an integral equation of

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- Al-Zanai, M. *see* Singh, Mahendra Pal, 90d:45009
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- Ivanovici, Marian On the asymptotic behavior of the solutions of a certain implicit Volterra integral equation. (Romanian summary) 90j:45027
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- Klaus, M. *see* Jackiewicz, Z.; et al., 90g:45019
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- Milota, J. Stability in models with long memories. 90g:45023
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- Sharipov, R. A. *see* Bikbaev, R. F., 90i:35227

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- Gaponenko, Ya. L. (with Logunov, S. L.) Stability of the solution of an integral equation of the first kind on bounded and compact sets. (Russian) 90g:45020
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- Kogut, P. I. Optimal stabilization of a nonlinear system of integro-differential equations of nonstationary aero-auto-elasticity. (Russian) 90g:45021
- Krizat, T. Uniform asymptotic stability of a class of integrodifferential systems. 90g:45022
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- Leonov, G. A. (with Smirnova, V. B.) Construction of estimates for domains of attraction for nonlinear mechanical systems. (Russian) (see 90d:00027)
- Logunov, S. L. *see* Gaponenko, Ya. L., 90g:45020
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- Lakshmikantham, V. (with Liu, Xinzhi; Sathananthan, S.) Impulsive integro-differential equations and extension of Lyapunov's method. 90m:45016
- Liu, Xinzhi *see* Lakshmikantham, V.; et al., 90m:45016

Manole, D. Stability of solutions in the linear theory of viscoelastic media with microstructure. 90g:73060

- Miller, Richard K. *see* Desch, W., 90f:93050
- Sathananthan, S. *see* Lakshmikantham, V.; et al., 90m:45016
- Sivasundaram, S. *see* Elaydi, S., 90j:45006
- Yoneyama, Toshiaki *see* Hara, Tadayuki; et al., 90k:45005

45M99 None of the above, but in this section

Items with secondary classifications in 45M99

- Ch'en, Hung I A Levin type comparison theorem and oscillation results for Volterra-Stieltjes integral equations. 90g:45005

45N05 Abstract integral equations, integral equations in abstract spaces

- Asanov, A. Uniqueness of a solution of Volterra operator equations. (Russian) 90e:45017
- Chizhov, V. E. Solvability of integral equations for a binary correlative function. (Russian) 90b:45032
- Clément, Philippe (with Mitidieri, Enzo) Qualitative properties of solutions of Volterra equations in Banach spaces. 90c:45017
- Cong, Shu Fan A uniqueness theorem for nonlinear integro-differential equations in a Banach space under a Kamke functional type condition. (Chinese. English summary) 90e:45020
- Desch, W. (with Grimmer, R.; Schappacher, W.) Propagation of singularities by solutions of second order integrodifferential equations. 90j:45029
- Grimmer, R. (with Schappacher, W.) Integrodifferential equations in Banach spaces with infinite memory. 90e:45020
- *see also* Desch, W.; et al., 90j:45029
- Mitidieri, Enzo (with Tosques, M.) Nonlinear integrodifferential equations in Hilbert space: the variational case. 90j:45030
- *see also* Clément, Philippe, 90c:45017
- Papageorgiou, Nikolaos S. Existence and convergence results for integral inclusions in Banach spaces. 90b:45033
- Prüss, J. Linear hyperbolic Volterra equations of scalar type. 90i:45021
- Schappacher, W. *see* Grimmer, R., 90j:45020 and Desch, W.; et al., 90j:45029
- Sforza, Daniela Regularity results for an integrodifferential equation of convolution type in Hilbert space. 90i:45022
- Szula, Stanisław On the Urysohn integral equation in Banach spaces. (Polish summary) 90e:45018
- Tosques, M. *see* Mitidieri, Enzo, 90j:45030
- Vlasov, V. V. Some boundary value problems on a half-axis for a class of integro-differential equations. (Not in MR)

Items with secondary classifications in 45N05

- Arendt, W. (with Kellermann, H.) Integrated solutions of Volterra integrodifferential equations and applications. 90b:47068
- Bahuguna, D. (with Raghavendra, V.) Rothe's method to parabolic integro-differential equations via abstract integro-differential equations. 90k:34076
- Banas, József (with Knap, Zygmunt) Integrable solutions of a functional-integral equation. 90g:47111
- Choi, U Jin (with MacCamy, R. C.) Fractional order Volterra equations with applications to elasticity. 90e:45004
- Dhage, B. C. On approximating common fixed points of some mappings. 90a:47141
- Domanski, E. N. (with Plichko, A. N.) On a generalization of a theorem of Picard on the solvability of a Fredholm integral equation of the first kind. (Russian) 90b:45003
- Gao, Da Jun Multiple solutions of nonlinear Fredholm integral equations in Banach spaces. 90m:45011
- Heard, Melvin L. (with Rankin, Samuel M., III) Weak solutions for a class of parabolic Volterra integrodifferential equations. 90c:45013
- Joshi, S. R. (with Shendge, G. R.) Integral inequalities in Banach lattices. 90j:34018
- Kellermann, H. *see* Arendt, W., 90b:47068
- Knap, Zygmunt *see* Banas, József, 90g:47111
- Lorenzi, Alfredo (with Sinestrari, Eugenio) Stability results for a partial integrodifferential inverse problem. 90j:45022
- MacCamy, R. C. *see* Choi, U Jin, 90e:45004
- Noren, Richard Uniform L^1 behavior in a class of linear Volterra equations. 90b:45008
- Plichko, A. N. *see* Domanski, E. N., 90b:45003
- Polityuk, V. P. A method for monotoneization of nonlinear equations in a Banach space. 90a:47159
- Prüss, J. Regularity and integrability of resolvents of linear Volterra equations. 90b:45005
- Pugliese, Andrea Hille-Yosida-type theorems for integrodifferential equations. 90b:47078
- Raghavendra, V. *see* Bahuguna, D., 90k:34076
- Rankin, Samuel M., III *see* Heard, Melvin L., 90c:45013
- Shendge, G. R. *see* Joshi, S. R., 90j:34018
- Sinestrari, Eugenio *see* Lorenzi, Alfredo, 90j:45022
- Szula, Stanisław On the application of measure of noncompactness to differential and integral equations in Banach spaces. 90e:47067
- Vlasov, V. V. Boundary value problems for a class of integro-differential equations and related spectral problems. 90b:45023
- Zheng, Quan Existence of solutions and comparison theorems for nonlinear Volterra integral equations in Banach spaces. (Chinese. English summary) 90i:45007
- Nonlinear Volterra integral equations in Banach spaces and their applications. (Chinese summary) 90g:45008
- Zhuang, Wan Monotone iterative technique for nonlinear integro-differential equation involving operator of nonlinear Volterra type in a Banach space. (Chinese summary) 90i:65252

45P05 Integral operators [see also 47Axx, 47Bxx, 47G05]

- Bertoni, M. (with Bocacci, P.) Computation of the singular system for a class of integral operators related to data inversion in confocal microscopy. 90k:45011
- Bocacci, P. *see* Bertoni, M., 90k:45011
- Chekan, D. D. *see* Makarov, Vladimir Leonidovich; et al., 90j:45031
- Dorogovtsev, A. A. Analogues of convolution-type equations. (Russian) 90m:45024
- Dyakina, V. V. (with Raevskii, V. Ya.) Investigation of an equation of electrophysics. (Russian) 90m:45025
- Dzhagibekov, G. Some two-dimensional singular integral operators. (Russian) (Not in MR)
- Gahed, L. (with Kalla, Shyam) Integral operators involving incomplete cylindrical functions. (Spanish. English summary) 90d:45010
- Imonkulov, S. A. (with Lakaev, S. N.) The discrete spectrum of the one-dimensional Friedrichs model. (Russian) 90a:45009
- Kalla, Shyam *see* Gahed, L., 90d:45010
- Khlobystov, V. V. *see* Makarov, Vladimir Leonidovich; et al., 90j:45031
- Lakaev, S. N. *see* Imonkulov, S. A., 90a:45009
- Makarov, Vladimir Leonidovich (with Khlobystov, V. V.; Chekan, D. D.) Some problems in the identification of nonlinear functional systems. (Russian) 90j:45031
- Nazarov, L. G. Expansion in eigenfunctions of a finite-dimensional perturbation of the Volterra operator. (Russian) (see 90d:45046)
- Novitskii, I. M. Carleman integral equations of the second kind on the half-line. (Russian) 90c:45019
- Pillai, V. S. Uniform invertibility of a family of regular approximations of one-dimensional singular integral operators on the semiaxis with continuous coefficients. (Russian) (Not in MR)
- Radchenko, E. L. L_p -theory of integral operators whose kernels contain the Bessel function. (Russian. Tajiki summary) 90k:45012
- Raevskii, V. Ya. *see* Dyakina, V. V., 90m:45025
- Sodin, O. V. Expansions in eigenfunctions of finite-dimensional perturbations of some Volterra operators. (Russian) (see 90d:45046)
- Smolyar, E. I. A real resolvent set of the Fredholm operator with difference kernel. (Russian) (see 90k:41001)
- Strishkov, V. A. Asymptotic regularization of integral operators of the first kind with power singularity. 90j:45032

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- Akhalaeva, G. Ya. (with Mandzhavidze, G. F.) Boundary value problems in the theory of generalized analytic vectors for domains with corner points. (Russian) 90c:30042
- Böttcher, Albrecht (with Krupnik, N. Ya.; Silbermann, Bernd) A general look at local principles with special emphasis on the norm computation aspect. 90b:46102
- L. V. Mikaelyan's conjecture in the theory of Wiener-Hopf determinants. (Russian) 90g:45010
- Brokate, Martin Some BV properties of the Preisach hysteresis operator. 90j:47082
- Brown, Russell M. Area integral estimates for caloric functions. 90j:35103
- Butsan, G. P. An integral equation for evolution stochastic operator systems without continuity and martingale conditions. (Russian. English summary) 90k:60121
- Dellwo, David R. Accelerated spectral refinement with applications to integral operators. 90j:45005
- Deundyak, V. M. Homotopy properties of a space of invertible matrix one-dimensional singular operators with piecewise continuous coefficients. (Russian. English and Georgian summaries) 90m:58209
- (with Simonenko, I. B.; Trinh Ngoc Minh) Symbols and a homotopy classification of families of one-dimensional singular operators with piecewise-continuous coefficients. 90c:47042
- Dikhtyar, V. I. Optimal regularizing algorithms and filters that are defined by integral convolution operators. (Russian) (see 90a:90008)
- Ebanoldt, T. A. A singular integral equation. (Russian) 90b:45020
- Elezdev, N. R. Weighted estimates of Magnaradze type for a linear singular integral and their application. (Russian) 90j:47030
- Efimov, S. V. The Noethericity of a class of bisingular operators with a shift. (Russian) 90b:47093
- Falakeev, L. P. Approximate properties of operators of Abel-Poisson operator type. (Russian) (see 90d:90046)
- Govorukhina, A. A. (with Kovalenko, N. V.; Paradozkova, I. A.) Multidimensional integral operators with partial integrals in a half-space. (Russian) 90d:47054
- Heywood, P. (with Rooney, P. G.) On the Hankel and some related transformations. 90a:41009
- Hsiao, George C. On boundary integral equations of the first kind. 90m:65199
- (Iacob, Andrei) *see* Krupnik, N. Ya., 90j:47092
- Kamalyan, A. G. (with Nerseyan, A. B.) Integral operators of smooth transfer type. 90j:47095
- Kazantzakis, J. G. *see* Theocaris, P. S., 90b:73017
- Kovalenko, N. V. *see* Govorukhina, A. A.; et al., 90d:47054
- Krupnik, N. Ya. \star Banach algebras with symbol and singular integral operators. 90j:47092
- *see also* Böttcher, Albrecht; et al., 90b:46102
- Leibowitz, Gerald Homogeneity and weighted mean integral operators. 90k:47108
- Lisovets, N. I. Noethericity and the index of a singular integral operator of a special type. (Russian) 90c:47048
- Mandzhavidze, G. F. *see* Akhalaeva, G. Ya., 90c:30042
- Mokin, Yu. I. Estimates for the derivatives of solutions of integral equations of potential theory. 90d:31004
- Nerseyan, A. B. *see* Kamalyan, A. G., 90j:47095
- Paradozkova, I. A. *see* Govorukhina, A. A.; et al., 90d:47054
- Peeters, Gerrit On minimal realizations of integral operators with semi-separable kernels. (see 90f:90003)
- von Petersdorff, T. Boundary integral equations for mixed Dirichlet, Neumann and transmission problems. 90c:35055

- Pillai, V. S. On a method of excision of a singularity for bisingular integral operators with continuous coefficients. 90f:47076
- Pulyaev, V. F. On the spectrum of Volterra operators. (Russian) 90b:47041
- Punchin, Jorge Weakly singular integral operators as mappings between function spaces. 90c:47050
- Radchenko, T. N. *see* Rogushin, V. S., 90g:47094
- Rogushin, V. S. (with Radchenko, T. N.) The Noethericity of some singular integral operators. (Russian) 90g:47094
- Rooney, P. G. *see* Heywood, P., 90a:41009
- Savast'yanov, L. A. Problems of the numerical realization of a mathematical model for a thin metallic film deposition process. (Russian) 90a:82098
- Shaaban, M. Generalized norm of integral operators and matrices. (Russian. Tajiki summary) 90m:47015
- Shargorodskii, E. M. Singular integral operators with coefficients in P_2C . (Russian. English and Georgian summaries) 90j:30066
- Shcherbina, V. A. The method of boundary integral equations for the second boundary value problem in domains with a cut. (Russian) 90a:45008
- Shi, Xian Liang A class of singular integral operators—developments and problems. (Chinese. English summary) 90b:47093
- Silbermann, Bernd *see* Böttcher, Albrecht; et al., 90b:46102
- Simonenko, I. B. *see* Deundyak, V. M.; et al., 90c:45009
- Soblov, I. The existence of an n th eigenvalue of integral operators with nonnegative kernels. (Russian. Tajiki summary) 90j:47070
- Theocaris, P. S. (with Kazantzakis, J. G.) The spectra of some singular integral operators for solving three-dimensional boundary value problems. (Greek summary) 90b:73017
- Trinh Ngoc Minh *see* Deundyak, V. M.; et al., 90c:45009
- Tungatov, A. Some integral operators in the theory of generalized analytic functions. (Russian) 90c:30050
- Verma, Ram U. A determinant system for singular integral operators $S + T$ in Banach spaces. 90d:47056
- Vlasogradova, G. Ya. Singular integral operators with a finite group of linear-fractional shifts on the real axis. (Russian) 90f:47078
- Zhou, Xia The Riemann-Hilbert problem and inverse scattering. 90i:34046
- Zhukhanov, E. Solution of a singular integral equation with a multidimensional singular Bergman integral operator. (Russian) 90f:45005

46-XX Functional analysis {For manifolds modeled on topological linear spaces, see 57N20, 58Bxx.}

46-00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 46-00

- Altomare, F. (with Campiti, Michele) A bibliography on the Korovkin type approximation theory (1952-1987). 90m:41001
- Ando, Tsuyoshi *see* Halperin, I., 90k:00036
- Campiti, Michele *see* Altomare, F., 90m:41001
- (Gamkrelidze, R. V.) *see* Current problems in mathematics. Fundamental directions, 90j:00004a
- Halperin, I. (with Ando, Tsuyoshi) \star Bibliography: series of vectors and Riemann sums. 90k:00036
- Lyubich, Yu. I. Linear functional analysis. (Russian) 90j:00004b
- Items listed otherwise than by author
- Current problems in mathematics. Fundamental directions \star Современные проблемы математики. Фундаментальные направления. Том 19. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 19] 90j:00004a
- Index:
- J. Funct. Anal. Cumulative author-title index: Volumes 1-81. (Not in MR)
- Itogi Nauki i Tekhniki \star Современные проблемы математики. Фундаментальные направления. Том 19. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 19] 90j:00004a

46-01 Elementary exposition; textbooks

- (Becker, Richard Edouard) *see* Naimark, M. A., 90m:46004a and 90m:46004b
- Fomin, S. V. *see* Kolmogorov, A. N., 90k:46001
- (Gebel, M.) *see* Naimark, M. A., 90m:46004a and 90m:46004b
- Heuser, Harro \star Funktionalanalysis. (German) [Functional analysis.] 90m:46001
- Kesavan, S. \star Topics in functional analysis and applications. 90m:46002
- Kolmogorov, A. N. (with Fomin, S. V.) \star Элементы теории функций и функционального анализа. (Russian) [Elements of the theory of functions and functional analysis] 90k:46001
- Kreyszig, Erwin \star Introductory functional analysis with applications. 90m:46003
- (Kunze, Wolfgang) *see* Naimark, M. A., 90m:46004a and 90m:46004b
- Maddox, I. J. \star Elements of functional analysis. 90k:46002
- (Mal, B.) *see* Naimark, M. A., 90m:46004a and 90m:46004b
- Murakami, Haruo \star Kansukaiseki. (Japanese) [Functional analysis] 90i:46001
- Naimark, M. A. \star Normierte Algebren. (German) [Normed algebras] 90m:46004a
- \star Normierte Algebren. (German) [Normed algebras] 90m:46004b
- Pedersen, Gert K. \star Analysis now. 90f:46001
- (Tesch, G.) *see* Naimark, M. A., 90m:46004a and 90m:46004b
- (Tikhomirov, V. M.) *see* Kolmogorov, A. N., 90k:46001

- Young, Nicholas J. ★ An introduction to Hilbert space. 90c:46001
 Zilly, C. ★ Problems in distributions and partial differential equations. 90d:46001
- Items with secondary classifications in 46-01
- (Antelmann, Horst) see Dieudonné, Jean, 90c:00001
 Azizov, T. Ya. (with Iokhvidov, I. S.) ★ Linear operators in spaces with an indefinite metric. 90j:47042
 (Bade, W. G.) see Dunford, Nelson, 90g:47001a; 90g:47001b and 90g:47001c
 (Bartle, Robert G.) see Dunford, Nelson, 90g:47001a; 90g:47001b and 90g:47001c
 Behrends, E. ★ Maß- und Integrationstheorie. (German) [Measure and integration theory] 90i:28001
 (Boll, Ludwig) see Dieudonné, Jean, 90c:00001
 Dautray, Robert (with Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 8. (French) [Mathematical analysis and computing for science and technology. Vol. 8] 90m:00006b
 (Dawson, E. R.) see Azizov, T. Ya., 90j:47042
 Dieudonné, Jean ★ Grundzüge der modernen Analysis. 2. (German) [Fundamentals of modern analysis. 2] 90c:00001
 Dunford, Nelson (with Schwartz, Jacob T.) ★ Linear operators. Part I. 90g:47001a
 — (with Schwartz, Jacob T.) ★ Linear operators. Part II. 90g:47001b
 — (with Schwartz, Jacob T.) ★ Linear operators. Part III. 90g:47001c
 Iokhvidov, I. S. see Azizov, T. Ya., 90j:47042
 Lions, Jacques-Louis see Dautray, Robert, 90m:00006b
 Orlov, I. V. The Lagrangian theorem and its generalizations in current mathematics. (Russian) 90m:26001
 Royden, H. L. ★ Real analysis. 90g:00004
 Schwartz, Jacob T. see Dunford, Nelson, 90g:47001a; 90g:47001b and 90g:47001c
 Smirnov, Vladimir Ivanovich ★ Lehrgang der höheren Mathematik. Teil IV/1. (German) [Course in higher mathematics. Part IV/1] 90k:00003a
 Sobolev, S. L. ★ Некоторые применения функционального анализа в математической физике. (Russian) [Some applications of functional analysis in mathematical physics] 90m:46059
 — ★ Избранные вопросы теории функциональных пространств и обобщенных функций. (Russian) [Selected problems in the theory of function spaces and generalized functions] 90m:46060
 (Uspenskii, S. V.) see Sobolev, S. L., 90m:46060
 Vladimirov, V. S. ★ Уравнения математической физики. (Russian) [The equations of mathematical physics] 90m:00009
 Wulbert, Daniel Liapunov's and related theorems. 90m:46074

46-02 Advanced exposition (research surveys, monographs, etc.)

- Allan, G. R. Open problems. (see 90f:46002)
 Doran, R. S. see Fell, J. M. G., 90c:46001 and 90c:46002
 Fell, J. M. G. (with Doran, R. S.) ★ Representations of \ast -algebras, locally compact groups, and Banach \ast -algebraic bundles. Vol. 1. 90c:46001
 — (with Doran, R. S.) ★ Representations of \ast -algebras, locally compact groups, and Banach \ast -algebraic bundles. Vol. 2. 90c:46002
 Kasraev, A. G. (with Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] 90c:46003
 Kutateladze, S. S. see Kasraev, A. G., 90c:46003
- Items listed otherwise than by author
- Problems:
 Automatic continuity and Banach algebras see Allan, G. R., (90f:46002)
 Radical Banach algebras and automatic continuity Long Beach problems. (see 90f:46002)

Items with secondary classifications in 46-02

- (Aron, Richard M.) see Casazza, Peter G., 90b:46030
 (Baker, John Warren) see Casazza, Peter G., 90b:46030
 Casazza, Peter G. (with Shura, Thaddeus J.) ★ Tsirel'son's space. 90b:46030
 Hervé, Michel ★ Analyticity in infinite-dimensional spaces. 90f:46074
 Khrennikov, A. Yu. Functional superanalysis. 90f:58019a
 Pour-El, Marian B. (with Richards, Ian) ★ Computability in analysis and physics. 90k:03062
 Richards, Ian see Pour-El, Marian B., 90k:03062
 Shura, Thaddeus J. see Casazza, Peter G., 90b:46030
 (Slotterbeck, O.) see Casazza, Peter G., 90b:46030

Items listed otherwise than by author

- Lecture Notes in Mathematics see Casazza, Peter G., 90b:46030

46-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 46-03

- (Dirac, Paul) see Medvedev, F. A., 90b:01031
 (Dye, Henry Abel) see Varadarajan, V. S., 90c:01110
 (Fantappiè, Luigi) see Struppa, Daniele C., 90c:01048
 (Giorgi, G. L.) see Medvedev, F. A., 90b:01031
 Guerraggio, Angelo The "Théorie générale des fonctionnelles" of V. Volterra and J. Péris. (Italian) 90b:01048
 (Kolmogorov, A. N.) see Vakhaniya, N. N., 90c:01049
 Lighthill, James Reminiscences about Fourier analysis and generalised functions. 90g:01033
 Medvedev, F. A. The delta-function of G. L. Giorgi and P. A. M. Dirac. (Russian) 90b:01031
 (Péris, J.) see Guerraggio, Angelo, 90b:01048

- Struppa, Daniele C. Luigi Fantappiè and the theory of analytic functionals. (Italian) 90c:01048
 Vakhaniya, N. N. A. N. Kolmogorov and the development of the theory of probability distributions in linear spaces. 90c:01049
 Varadarajan, V. S. Henry Abel Dye. 90c:01110
 (Volterra, V.) see Guerraggio, Angelo, 90b:01048

46-06 Proceedings, conferences, etc.

- (Berkson, Earl) see Analysis at Urbana, 90d:46002 and 90d:46003
 (Lindenstrauss, J.) see Geometric aspects of functional analysis, 90b:46002
 (Loy, R. J.) see Conference: Automatic Continuity and Banach Algebras, 90f:46002
 (Martín Peinado, Elena) see Geometric aspects of Banach spaces, 90b:46001
 (Milman, Vitali D.) see Geometric aspects of functional analysis, 90b:46002
 (Nikol'skii, S. M.) see Studies in the theory of differentiable functions of several variables and its applications, 90c:46002
 (Peck, T.) see Analysis at Urbana, 90d:46002 and 90d:46003
 (Plans, Antonio) see Geometric aspects of Banach spaces, 90b:46001
 (Rodés-Usán, Alvaro Angel) see Geometric aspects of Banach spaces, 90b:46001
 (Uhl, J. Jerry, Jr.) see Analysis at Urbana, 90d:46002 and 90d:46003
- Items listed otherwise than by author
- Analysis at Urbana ★ Analysis at Urbana. Vol. I. 90d:46002
 — ★ Analysis at Urbana. Vol. II. 90d:46003
 Analyticity in operator algebras ★ Sakuyo soka no kaiseikisei ni tsuite no kenkyu. (Japanese) [On analyticity in operator algebras] 90b:46001
 Austin, TX ★ Texas Functional Analysis Seminar 1985-1986. 90d:46004
 Canberra ★ Conference on Automatic Continuity and Banach Algebras. 90f:46002
 Conference:
 Automatic Continuity and Banach Algebras ★ Conference on Automatic Continuity and Banach Algebras. 90f:46002
 Riesz Spaces, Positive Operators and Applications ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. 90b:46002
 Congress:
 Functional Analysis ★ Congress on Functional Analysis. 90m:46005
 Functional-analytic study of generalized functions ★ Chokanshiron no kanst kaiseikiteki kenkyu. (Japanese) [Functional-analytic study of generalized functions] 90m:46006
 Geometric aspects of Banach spaces ★ Geometric aspects of Banach spaces. 90b:46001
 Geometric aspects of functional analysis ★ Geometric aspects of functional analysis. 90b:46002
 Lecture Notes in Mathematics ★ Geometric aspects of functional analysis. 90b:46002
 Madrid ★ Congress on Functional Analysis. 90m:46005
 Oxford, MS ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. 90b:46002
 Proceedings:
 Conference on Riesz Spaces, Positive Operators and Applications ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. 90b:46002
 Seminar:
 Functional Analysis ★ Texas Functional Analysis Seminar 1985-1986. 90d:46004
 Geometric Aspects of Functional Analysis ★ Geometric aspects of functional analysis. 90b:46002
 Special Year:
 Modern Analysis ★ Analysis at Urbana. Vol. I. 90d:46002
 — ★ Analysis at Urbana. Vol. II. 90d:46003
 Studies in the theory of differentiable functions of several variables and its applications ★ Исследования по теории дифференцируемых функций многих переменных и ее приложениям. 13. (Russian) [Studies in the theory of differentiable functions of several variables and its applications. 13] 90c:46002
 Symposium:
 Analyticity in Operator Algebras ★ Sakuyo soka no kaiseikisei ni tsuite no kenkyu. (Japanese) [On analyticity in operator algebras] 90b:46001
 Functional-analytic Study of Generalized Functions ★ Chokanshiron no kanst kaiseikiteki kenkyu. (Japanese) [Functional-analytic study of generalized functions] 90m:46006
 Theory of Operator Algebras and Index Theory ★ Sayosokan ron to shisi riron. (Japanese) [Theory of operator algebras and index theory] 90d:46005
 Theory of operator algebras and index theory ★ Sayosokan ron to shisi riron. (Japanese) [Theory of operator algebras and index theory] 90d:46005
 Urbana, IL ★ Analysis at Urbana. Vol. I. 90d:46002
 — ★ Analysis at Urbana. Vol. II. 90d:46003
- Items with secondary classifications in 46-06
- (Accardi, L.) see Quantum probability and applications, 90f:00007
 (Belyaev, Yu. K.) see Probability theory, theory of random processes, and functional analysis, 90m:00040
 (Colella, David) see Commutative harmonic analysis, 90c:43001
 (Déchamps-Gendim, Myriam) see Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001
 (Fitzpatrick, Simon) see Workshop: Functional Analysis and Optimization, 90c:00012
 (Gamkrelidze, R. V.) see Current problems in mathematics. Newest results, 90m:00017
 (Giles, John) see Workshop: Functional Analysis and Optimization, 90c:00012
 (Gnedko, B. V.) see Probability theory, theory of random processes, and functional analysis, 90m:00040
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- Kamthan, P. K. (with Gupta, Manjul) ★ Schauder bases: behaviour and stability. 90i:46011
- Kramer, E. Orthogonal bases in H -locally convex spaces. (Slovenian summary) 90a:46008
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- Swartz, Charles A generalization of Stiles' Orlicz-Pettis theorem. (Italian summary) 90j:46008

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- Chan-Porn Les systèmes de représentation absolue dans les espaces des fonctions holomorphes. [Systems of absolute representation in holomorphic function spaces] 90m:46036
- Ensembles suffisants pour quelques espaces de fonctions. [Sufficient sets for some function spaces] 90m:46037
- Díaz Alcalde, Juan Carlos K -monotone bases in Köthe echelon spaces. I. (Spanish. English summary) 90f:46015a
- K -monotone bases in Köthe echelon spaces. II. (Spanish. English summary) 90f:46015b
- Dubinsky, Ed (with Vogt, Dietmar) Complemented subspaces in tame power series spaces. 90c:46014
- Kazaryan, K. S. (with Lizorkin, P. I.) Multipliers, bases and unconditional bases of the weighted spaces B and SB . (Russian) 90c:46071
- Ketonen, Timo (with Nyberg, Kaisa) The Ramsey theorem and complemented basic sequences in Fréchet spaces with absolute finite-dimensional decompositions. 90c:46004
- Krone, Jörg Existence of bases and the dual splitting relation for Fréchet spaces. 90c:46008
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- Vogt, Dietmar see Dubinsky, Ed, 90c:46014
- Waszak, A. Remarks on convergence in some modular spaces. 90h:46015

46A40 Ordered topological linear spaces, vector lattices [see also 06F20, 46B30]

- Bahya, A. O. Un critère de nucléarité pour certains espaces de type (M) . (English summary) [A nuclearity criterion for certain spaces of type (M)] 90h:46009
- Bălan, Trandafir T. (with Turcitu, George) Linear multilattices. (Not in MR)
- Basly, M. (with Triki, A.) f -algebras in which order ideals are ring ideals. 90c:46008
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- Berdikulov, M. A. (with Yagorov, N. D.) Spaces with an order unit of type I. (Russian) 90d:46012
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- On an extension theorem by Sikorski. 90a:46010
- (with van Rooij, A.) Small Riesz spaces. 90c:46009
- (with van Rooij, A.) Hahn-Banach for Riesz homomorphisms. 90g:46011
- Chen, Shao Jian The classification of 2-dimensional lattice vector spaces. (Chinese. English summary) 90j:46009
- Cook, Thurlow A. Riesz spaces and quantum logics. (see 90h:46002)
- Díaz Alcalde, Juan Carlos Continuous norms on Fréchet lattices. 90b:46012
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- Isac, G. On the Choquet-Kendall theorem. 90a:46011
- Karenin, A. L. Some properties of (0) -continuous functionals. (Russian) (see 90m:00015)
- Khalcelulla, S. M. see Saleh Al-Mestady, Mohammed, 90i:46012
- Kuzhen'kin, S. N. On the derivative of a sublinear projector. (Russian) (see 90m:00015)
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- On linear topological Riesz spaces without convexity conditions. 90j:46010
- Radulescu, Vicențiu D. A generalization of a classical result concerning the duality of regular spaces. 90c:46012
- van Rooij, A. see Buskes, G., 90a:46009 and 90g:46011
- Saleh Al-Mestady, Mohammed (with Khalcelulla, S. M.) Order- S -quasibarrelled vector lattices and closed graph theorem. 90i:46012
- Schmidt, Klaus D. Acknowledgement of priority. 90b:46014
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- Swartz, Charles The uniform boundedness principle for order bounded operators. 90g:46014
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- Vuza, Dan Tudor Characterization of regular Riesz spaces using ou -compact operators. 90b:46015
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- Yagorov, N. Zh. Isometries of spaces with order one. (Russian) 90a:46012

- The notion of modularity and finiteness of P -projectors in a space with an order unit. (Russian) 90d:46016

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- Álvarez, Sergio Lattices generated by collections of L^p -spaces. (Spanish) 90m:46044
- Becker, Richard Edouard Sur les cônes faiblement complets, contenus dans un espace de Banach. [On weakly complete cones contained in a Banach space] 90k:46043
- Beg, Ismat (with Popovici, Ioan Mircea) Ultraproduct and finite representability of Banach lattices. 90c:46016
- Daneş, Rodica-Mihaela Lattice operators on ordered spaces of vector sequences. 90f:47048
- van Eldik, Peter see Venter, Lucas; et al., 90h:46084
- Fleischer, Isidore Functional representation of vector lattices. 90d:06029
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- Grobler, J. J. see Venter, Lucas; et al., 90h:46084
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- Maliký, Peter Random variables with values in a vector lattice (mean value and conditional mean value operators). (Russian and Slovak summaries) 90f:60009
- Muntean, Ioan Some extensions of Dini convergence theorem. 90f:54022
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- Németh, A. B. On the Riesz homomorphism of the composition operator. 90k:47076
- Németh, A. B. The Dini theorem and normal cones in Banach spaces. 90a:46020
- Niculescu, Constantin P. (with Vuza, Dan Tudor) Alfsen-Effros type order relations defined by vector norms. 90d:46032
- Papuc, Dan I. Partial orderings on differentiable manifolds. 90m:58003
- Popovici, Ioan Mircea see Beg, Ismat, 90c:46016
- Richard, Scott F. A new approach to production equilibria in vector lattices. 90a:90029
- Schmidt, Klaus D. Daugavet's equation and orthomorphisms. 90k:47077
- Serban-Tofan, Doina (σ) -continuous bilinear operators. (Romanian summary) 90a:47094
- Shotaev, G. N. The tensor product of lattice-normed spaces. 90c:46074
- Swartz, Charles The Banach-Steinhaus theorem for ordered spaces. 90h:47065
- The Nikodým boundedness theory for lattice-valued measures. 90m:46078
- Synnatschke, J. Stetige Elemente bedingt vollständiger f -Algebren. (English summary) [Continuous elements of conditionally complete f -algebras] 90c:06022
- Venter, Lucas (with Grobler, J. J.; van Eldik, Peter) The peripheral spectrum in Banach lattice algebras. 90h:46084
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- Abian, Alexander Infinite matrices with orthonormal rows. (Russian and Slovak summaries) 90g:46016
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- Bastin, Françoise (with Bonet, José) Locally bounded noncontinuous linear forms on strong duals of nondistinguished Köthe echelon spaces. 90h:46012
- Beckmann, Wolfgang (with Chang, Shao-Chien) Some distinguished subsets of FK-spaces containing p . 90k:46019
- Bombal, Fernando On Pelczyński's property (V^*) in vector sequence spaces. 90j:46011
- Bonet, José (with Dierolf, S.; Fernández, Carmen) Inductive limits of vector-valued sequence spaces. 90k:46020
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- Kocatepe, Mehmet Classification of Dragilev spaces of types -1 and 0 . 90f:46017
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 — Remarks on convergence in some modular spaces. 90k:46015
 — *see also* Musielak, J., 90k:46017 and 90k:46021
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- Nanda, Sudarsan Matrix transformations in some sequence spaces. 90k:40004
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- Alpay, S. A note on compact convex sets with equal support property. (Turkish summary) 90k:46015a
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- Negreponis, Stelios *see* Argyros, S.; et al., 90c:46020
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46A99 None of the above, but in this section

- Burzyk, J. Independence of sequences in convergence linear spaces. 90c:46015
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- Bonami, Aline (with Charpentier, Philippe) Une estimation Sobolev $\frac{1}{2}$ pour le projecteur de Bergman. (English summary) [$H^{1/2}$ estimate for the Bergman projection] 90b:32048
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46E30 Spaces of measurable functions (L^p -spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, etc.)

- Akishev, G. A. see Smallov, E. S., (90d:00046)
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- Deeb, W. Multipliers and isometries of Orlicz spaces. 90b:46064
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- (with Trautman, D. A.) On two function spaces which are similar to L_0 . 90i:46047
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- Feichtinger, Hans G. Atomic characterizations of modulation spaces through Gabor-type representations. 90h:46051
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- Hudzik, H. Orlicz spaces containing a copy of l^1 . 90i:46055
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- Kozłowski, Wojciech M. Notes on modular function spaces. I, II. 90i:46057
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- Ariño, Miguel A. (with Muckenhoupt, Benjamin) Maximal functions on classical Lorentz spaces and Hardy's inequality with weights for nonincreasing functions. 90k:42034
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- Dowling, Patrick N. Complemented copies of c_0 in vector valued Hardy spaces. 90a:46084
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- Robinson, Derek W. Lie groups and Lipschitz spaces. 90k:22018
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- ter Elst, A. F. M. (with van Eijndhoven, S. J. L.) A Gervrey space characterization of certain Gel'fand-Shilov spaces S'_{δ} . 90f:46061
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- de Graaf, Jan (with ter Elst, A. F. M.) An algebraic approach to distribution theories. 90d:46058
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- Mikusiński, P. Bochnerians and generalized functions. 90a:46090
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- On the convolution in the space $\mathcal{D}'_{[a,b]}$. 90a:46094
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- van Eijndhoven, S. J. L. (with Kruszyński, Paweł) Spectral trajectories, duality and inductive-projective limits of Hilbert spaces. 90a:47115
- Feichtinger, Hans G. Atomic characterizations of modulation spaces through Gabor-type representations. 90b:46051
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- Gracia-Bondía, José M. (with Várilly, Joseph C.) Algebras of distributions suitable for phase-space quantum mechanics. I. 90a:81038
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- Junek, Heinz (with Tran Van Vuong) On modulation spaces. (German and Russian summaries) 90k:46070
- Kamiński, A. (with Uryga, J.) Convolution in $K'(M_p)$ -spaces. 90b:46083
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- Burzyk, J. Nonharmonic solutions of the Laplace equation. 90f:46064
- Castro, F. M. de Oliveira Sur les équations de distribution. [On distribution equations] 90d:46077a
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- Ambrosio, L. A compactness theorem for a new class of functions of bounded variation. (Italian summary) 90c:49005
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- Baker, John A. Functional equations, tempered distributions and Fourier transforms. 90c:39006
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- Burzyk, J. A Paley-Wiener type theorem for regular operators of bounded support. 90m:42013
- Chandhry, Muhammad Aslam (with Kazi, M. H.) Distributional $(n+1)$ -dimensional heat equation. 90b:35109
- Christ, Michael Inversion in some algebras of singular integral operators. 90j:42041
- Colombeau, J.-F. The elastoplastic shock problem as an example of the resolution of ambiguities in the multiplication of distributions. 90m:35123
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- Meise, Reinhold Sequence space representations for zero-solutions of convolution equations on ultradifferentiable functions of Roumieu type. 90a:46089
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- Miyachi, Akihiko Maximal functions for distributions on open sets. 90b:42038
- Neagu, Mihai (with Cristici, Borislav) Functional equations in distributions. 90d:39008
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- Passare, Mikael A calculus for meromorphic currents. 90d:32020
- Persson, J. Invariance of the Cauchy problem for distribution differential equations. 90b:34006
- Pilipović, S. On the space $\mathcal{D}'^{(n)}_L$, $q \in [1, \infty]$. 90a:46091
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- Ahlfors, B. R. (with More, S. V.) On distributional Laplace-Hardy transformation. 90f:46069
- (with More, S. V.) On distributional Laplace-Hardy \mathcal{L}_F transformation. 90k:46094
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- Duran, Antonio J. On Hankel transform. 90m:46068
 Feynß, I. On the Hankel-transformation of Schwartz distributions. 90g:46061
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 Goyal, A. N. (with Chaturvedi, V. K.) On generalized transcendental functions and distributional transforms. 90b:46088
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 — (with Agrawal, R. D.) Structure of Mehler-Fock transformable generalized functions. 90i:46079
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 Mishra, S. K. see Pathak, R. S., 90m:46069
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 Pathak, R. S. (with Mishra, S. K.) Asymptotic behaviours of a class of integral transforms in complex domains. 90m:46069
 Pilipović, S. Quasiasymptotic expansion of distributions from S'_x and the asymptotic expansion of the distributional Stieltjes transform. 90m:46070
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 Sharafutdinov, V. A. The ray transform of symmetric tensor fields. 90h:46074
 Singh, Om Prakash¹ The distributional Hankel transform, its inversion and application. 90i:46080
 Sinha, Sunil Kumar¹ On two new characterizations of the finite Sturm-Liouville transform for distributions. 90d:46064
 — (with Mishra, Tapas Kumar) The n -dimensional characterizations of the Fourier transform for distributions. (Not in MR)
 de Sousa Pinto, J. Periodic Silva tempered ultradistributions. 90m:46071
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 Tekale, B. K. (with Chaudhary, M. S.) On Stieltjes transform of Banach-space-valued distributions. 90c:46053
 Trüger, G. A Tauberian theorem for the generalized S_2 -transform of distributions. 90j:46045

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 Betancor, Jorge J. The Hankel-Schwartz transform for function of compact support. 90d:44003
 — A mixed Parseval's equation and a generalized Hankel transformation of distributions. 90g:44002
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 — On two new characterizations of the Hankel transform for distributions. 90c:44005
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46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58G07]

- Epishina, E. N. (with Mesia, A. V.) Multiplication of hyperfunctions on the circle. (Russian) 90h:46089
 Ivanov, Valentin Konstantinovich (with Perminov, V. V.) ★ Нелинейные операторы в свертках: обыкновенные дифференциальные уравнения. (Russian) [Nonlinear convolution operators: ordinary differential equations] 90h:46095
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 Matsuzawa, Tadato A calculus approach to hyperfunctions. II. 90g:46062
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 Ito, Yoshifumi Fourier hyperfunctions of general type. 90a:32010
 Kaneko, Akira ★ Introduction to hyperfunctions. 90m:32017
 — On hyperfunctions with analytic parameters. 90c:32010
 — Note on the reproducing property of the Bergman kernel. 90m:32018
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 Komatsu, Hikosaburo Operational calculus, hyperfunctions and ultradistributions. 90i:44005
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 Perminov, V. V. Fundamental solutions of nonlinear differential convolution equations. (Russian) 90f:46067
 (Radyno, Ya. V.) see Yosida, Kōsaku, 90k:44008
 Struppa, Daniele C. Luigi Fantappiè and the theory of analytic functionals. (Italian) 90c:01048
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 Zayed, Ahmed I. Generalized Faber expansions of hyperfunctions on analytic curves. 90m:32019

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Summary of Masaki Kashiwara's "The study of algebraic analysis" A summary of Masaki Kashiwara's (physics Ph.D.) prize-winning investigation of "The study of algebraic analysis". (Japanese) 90m:01005

46F20 Distributions as boundary values of analytic functions [see also 30Exx, 32A40]

- Carmichael, Richard D. Values on the topological boundary of tubes. 90a:46103
 — (with Mitrović, Dragiša) ★ Distributions and analytic functions. 90m:46072
 — Distributional and L^2 boundary values on the topological boundary of tubes. 90h:46075
 Mitrović, Dragiša see Carmichael, Richard D., 90m:46072
 Pathak, R. S. (with Paul, A. C.) Representations of ultradistributions of compact support by boundary values of analytic functions. 90i:46082
 — (with Paul, A. C.) Distributional boundary values in $(S^*)'$ -spaces of functions analytic in tubular radial domains. 90d:46066
 — (with Paul, A. C.) Distributional boundary values in $(W^*)'$ -spaces of functions holomorphic in tube domains. 90m:46073
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- Karunakaran, V. Bieberbach functions and periodic distributions. 90i:32010
 Ōsaka, Toshinori Higher-codimensional boundary value problem and F -mild hyperfunctions. 90i:58208

46F25 Distributions on infinite-dimensional spaces [see also 58C35]

- Ishikawa, Shiro Products of Wiener functionals on an abstract Wiener space. 90c:46053
 Potthoff, Jürgen On Meyer's equivalence. 90i:46083
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 Friedrich, Jürgen Integral representations of positive definite matrix-valued distributions on cylinders. 90k:43013
 Itô, Kiyosi Malliavin calculus on a Segal space. 90c:60035
 Krée, Paul Les structures fondamentales de l'analyse stochastique. (English summary) [The fundamental structures of stochastic analysis] 90b:60002
 Li, Yi Chia Generalized functions on infinite-dimensional spaces and its application to white noise calculus. 90k:60125
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 Schmiele, John Infinite-dimensional Fock spaces and an associated generalized Laplacian operator. 90g:46058
 Sobukawa, Takuya Interpolation theory on Sobolev spaces over the abstract Wiener space. 90k:46078
 Tarladze, V. I. The Fourier topology for infinite-dimensional spaces. (Russian) 90f:46073

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- Sikorskii, M. R. Some applications of Boolean-valued models to the study of operators on semi-normed spaces. (Russian) 90j:46046

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- Cioranescu, Ioana On twice differentiable functions. (Not in MR)

Kawai, Takahiro Systems of linear differential equations of infinite order: an aspect of infinite analysis. 90j:58139

Nemzer, Dennis Periodic Boehmians. 90k:44006

46Gxx Measures, integration, derivative, holomorphy {For integration on infinite-dimensional spaces, see 28C20; for nonlinear functional analysis, see 58-XX, especially 58Cxx.}

Phelps, Robert R. ★ Convex functions, monotone operators and differentiability. 90g:46063

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46G05 Derivatives

de Barra, G. (with Fitzpatrick, Simon; Giles, John) On generic differentiability of locally Lipschitz functions on Banach space. 90i:46084

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Feyel, Denis (with de La Pradelle, Arnaud) Sur les espaces de Sobolev en dimension infinie. (English summary) [On Sobolev spaces in infinite dimensions] 90d:46067

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Horsley, Anthony (with Wrobel, Andrzej J.) Subdifferentials of convex symmetric functions: an application of the inequality of Hardy, Littlewood, and Pólya. 90b:46090

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Li, Jun Sik Generalized differentials of discontinuous functionals in H -space and their applications. (Korean. English summary) (Not in MR)

Mănzatu, E. Fonctionnelles différentiables sur des espaces localement convexes. Applications dans la théorie générale des systèmes. (Romanian summary) [Functionals differentiable on locally convex spaces. Applications in general systems theory] 90k:46096

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Balabanov, V. A. ★ Некоторые вопросы нелинейного функционального анализа и их приложения. (Russian) [Some problems in nonlinear functional analysis and their applications] 90k:47096

Baloganskil, V. S. Fréchet differentiability of the distance function, and the structure of a set. 90d:46022

Bendikov, A. D. (with Pavlov, I. V.) On the Poisson equation on the infinite-dimensional torus. 90c:35160

Bogachev, V. I. (with Shkarin, S. A.) Differentiable and Lipschitz mappings of Banach spaces. 90b:58019

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Findley, David F. Semireflexive spaces in which the theorem on the derivative-of-the-inverse fails for Fréchet derivatives. 90j:46005

Jaramillo, J. A. An example on composite differentiable functions in infinite dimensions. 90d:46042

Jofré, A. (with Thibault, L.) D -representation of subdifferentials of directionally Lipschitz functions. 90m:90302

Kato, Nobuyuki On the second derivatives of convex functions on Hilbert spaces. 90b:47097

Khrennikov, A. Yu. Infinite-dimensional pseudodifferential operators. 90c:47046

Kusraev, A. G. (with Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] 90c:46003

Kutateladze, S. S. see Kusraev, A. G., 90c:46003

Kuzhen'kin, S. N. On the derivative of a sublinear projector. (Russian) (see 90m:00015)

Liczberski, Piotr On Bavrin's families of holomorphic maps of Banach spaces into the complex plane. (Russian and Polish summaries) 90g:32004

Lobanov, S. G. The chain rule and its converse for mappings of locally convex spaces. 90d:58018

Maderova, Andreana S. On the converse Taylor's theorem in linear topological spaces. 90b:58008

Nel, Louis Daniel¹ Categorical differential calculus for infinite-dimensional spaces. (French summary) 90k:58016

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46G10 Vector-valued measures and integration [see also 28Bxx, 46B22]

Andrea, F. (with Mazón, J. M.; Segura de León, S.) A Radon-Nikodým theorem for Riesz space valued measures. 90m:46076

Ball, J. M. (with Murat, François) Remarks on Chacon's biting lemma. 90g:46064

Bravo de la Parra, Rafael L_p -spaces and convergence theorems for vector integrals. (Spanish. English summary) 90b:46092

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— On integration in Banach spaces. XI. Integration with respect to polymasures. 90k:46097

Hahnika, Ján On integration in locally convex spaces. 90g:46065

Hashimoto, Kazuo Integration in mixed topological spaces. 90m:46077

Jefferies, Brian (with Okada, Susumu) Archimedes integrals and conuclear spaces. 90k:46098

Kadets, V. M. The domain of weak limits of Riemann integral sums of an abstract function. 90k:46099

Kozhaev, Sh. M. An integral of a multivalued function in a Banach space. (Russian) 90c:46034

Kruszynski, Pawel Vector measures on orthocomplemented lattices. 90a:46104

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— Operators from H^1 into a Banach space and vector valued measures. 90k:47065

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 Cameron, R. H. (with Storvick, D. A.) Relationships between the Wiener integral and the analytic Feynman integral. 90b:28014
 — (with Storvick, D. A.) Change of scale formulas for Wiener integral. 90d:28017
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 Egorov, A. D. An approximate formula of a given degree of accuracy for a functional integral with respect to a measure generated by an arbitrary random process. (Russian. English summary) 90b:65024
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- Ansemil, J. M. (with Ponte, S.) The compact open and the Nachbin ported topologies on spaces of holomorphic functions. 90a:46109
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- Blaga, Aurel P. (with Muntean, Ioan) Classifications of some sets of real functions on a vector space. 90d:46071
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- Dauvitz-Malamas, Z. Strong spectral continuity in topological matrix algebras. (Italian summary) 90a:46114
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- Müller, Vladimir (with Sołtysiak, A.) On the largest generalized joint spectrum. 90a:46116
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- Tomluk, B. J. Biduals of Banach algebras which are ideals in a Banach algebra. 90b:46101
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- Wong, Pak Ken A note on annihilator Banach algebras. 90a:46121
- Wu, Cong Xin (with Ma, Ming) Fuzzy normed algebras and representation of locally m -convex fuzzy topological algebras. 90i:46089

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- Anisovich, A. B. ★ Линейные функциональные уравнения. Операторный подход. (Russian) [Linear functional equations. The operator approach] 90f:39001
- Connes, Alain Entire cyclic cohomology of Banach algebras and characters of θ -summable Fredholm modules. 90c:46094
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- Hennings, M. A. Topologies on BP^* -algebras. 90i:46101
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- Laursen, K. B. Intertwining with isometries. 90f:47038
- Maltese, George (with Wille, Regina) A characterization of homomorphisms in certain Banach involution algebras. 90a:46146
- Porst, Hans-E. Erratum to: "On free topological algebras" [Cahiers Topologie Géom. Différentielle Catégoriques 28 (1987), no. 3, 235–253; MR 89c:22004]. 90c:22002
- Porta, Horacio (with Reicht, Lázaro) Spaces of projections in a Banach algebra. (Spanish summary) 90a:46189
- Reicht, Lázaro *see* Porta, Horacio, 90a:46189
- Render, Hermann An order-theoretic approach to involutive algebras. 90c:46068
- Ülger, Ali Arens regularity of $K(X)$. 90b:47081
- Vais, I. (with Krupnik, N. Ya.) Extension of a presymbol. (Russian. English summary) 90b:47082
- Van Daele, A. A note on the K -group of a graded Banach algebra. 90d:46102
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- Böttcher, Albrecht (with Krupnik, N. Ya.; Silbermann, Bernd) A general look at local principles with special emphasis on the norm computation aspect. 90b:46102
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- Kokk, A. *see* Abel, Mati Abel, 90b:46103
- Pym, John (with Ülger, Ali) On the Arens regularity of inductive limit algebras and related matters. 90c:46039
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- Oubbi, L. *see* Akkar, Mohamed; et al., 90c:46060
- Oudess, M. *see* Akkar, Mohamed; et al., 90c:46060
- Szumusta-Zawadzka, Maria Algebras with topology induced by two locally bounded topologies. 90m:46084

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- Curtis, Philip C., Jr. (with Loy, R. J.) The structure of amenable Banach algebras. 90k:46114
- Johnson, B. E. Derivations from $L^1(G)$ into $L^1(G)$ and $L^\infty(G)$. 90a:46122
- Kokk, A. Spaces of homomorphisms of topological module-algebras. (Russian. English summary) 90f:46091
- Lia, Chia-Shiang A -bilinear forms and generalised A -quadratic forms on unitary left A -modules. 90g:46071
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- Akkar, Mohamed (with El Kinani, A.; Oudess, M.) Calculus fonctionnels harmonique et analytique réel. (English summary) [Harmonic and real analytic functional calculi] 90a:46123
- El Kinani, A. *see* Akkar, Mohamed; et al., 90a:46123
- Gheorghe, Amaraitei Propriétés spectrales des algèbres m -convexes. (Romanian summary) [Spectral properties of m -convex algebras] 90a:46124
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- Grobler, J. J. The zero-two law in Banach lattice algebras. 90c:46037
- Hatori, Osamu Range transformations on a Banach function algebra. II. 90b:46094
- Khimshiashvili, G. N. Noncommutative functional calculus and the Fredholm theory of operator PI -algebras. (Russian) 90c:58018
- Kokk, A. A joint spectrum and extension of homomorphisms of topological algebras. (Russian. English summary) 90i:46087
- Kristóf, János Spectral theorem for normal elements of GW^* -algebras. 90f:46112
- Larotonda, Angel (with Zalduendo, Ignacio) Homogeneous spectral sets and local-global methods in Banach algebras. 90a:46126
- Pryde, A. J. A noncommutative joint spectral theory. 90k:47008
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- Ayupov, Sh. A. (with Gol'dshtein, M. Sh.; Tadzhibaev, B. R.) Monotonically complete Jordan algebras with a p -additive norm. (Russian) 90d:46074
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- Rao, S. Devadoss (with Rema, P. S.) Gleason-Kahane-Zalazko [Zelasko] theorem for Banach Jordan algebras and triple systems. 90c:46040
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- Cabrera-García, M. (with Martínez Moreno, Juan; Rodríguez-Palacios, Ángel) Nonassociative real H^* -algebras. 90a:46147
- El-Mallah, Mohamed Lamel Absolute valued algebras containing a central idempotent. 90j:17002
- Fernández López, Antonio *see* Benslimane, M.; et al., 90c:17001
- Friedman, Yaakov (with Russo, Bernard) Affine structure of facially symmetric spaces. 90g:46099
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- Kosyak, A. V. Extension of unitary representations of inductive limits of finite-dimensional Lie groups. 90d:22025
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- Lorentz, Kai On the structure of the similarity orbits of Jordan operators as analytic homogeneous manifolds. 90f:46092
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- Oudess, M. Inductive limits of normed algebras and m -convex structures. 90b:46093

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- Kabra, Savita (with Parnami, J. C.; Vasudeva, H. L.) A sine equation in Banach algebras. 90c:39016
- Kozachenko, M. Integral representation of multiplicative systems in a Banach ring. (Russian) 90f:46076
- Lapides, Michel L. Quantification, calcul opérationnel de Feynman axiomatique et intégrale fonctionnelle généralisée. (English summary) [Quantization, axiomatic Feynman operational calculus and generalized functional integral] 90m:46124
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46Jxx Commutative Banach algebras and commutative topological algebras

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- (Kunze, Wolfgang) see Naimark, M. A., 90m:46004a and 90m:46004b
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- Jun, Kil-Woong (with Kim, Kil-Tae; Boo, Deok-Hoon) Derivations and homomorphisms on Banach algebras. 90f:46082
- (with Kim, Kil-Tae; Boo, Deok-Hoon) Derivations and homomorphisms on Banach algebras. I. 90f:46083
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- Mekhtari, A. Distance entre éléments d'un semi-groupe continu dans une algèbre de Banach. [Distance between the elements of a continuous semigroup in a Banach algebra] 90g:46072
- Narmaniya, V. G. A remark on derivations. (Russian. English and Georgian summaries) 90h:46127
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- El Azhari, M. see Akhar, Mohamed; et al., 90d:46072
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- Johnson, B. E. Perturbations of multiplication and homomorphisms. 90c:46062
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- Bade, W. G. (with Dales, H. G.) Continuity of derivations from radical convolution algebras. 90k:46115
- Bilmlinger, M. (with Tichy, R. F.) Topological algebras of functions of bounded variation. I. 90k:46116
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- Candéal, Juan C. (with Galé, José E.) On the existence of analytic semigroups bounded on the half-disc in some Banach algebras. 90m:46087
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- Ellis, A. J. Algebraic structure in complex function spaces. 90b:46108
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- Garling, D. J. H. On the dual of a proper uniform algebra. 90g:46073
- Goldmann, H. An analytic algebra without analytic structure in the spectrum. 90e:46042
- Gómez Gil, Javier (with Llavona, J. G.) Multiplicative functionals on function algebras. 90h:46086
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Chevreaux, B. (with Galé, José E.) Banach algebra techniques and extensions of operator-valued representations. 90j:47014

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Mankiewicz, P. A superreflexive Banach space X with $L(X)$ admitting a homomorphism onto the Banach algebra $C(\mathbb{N})$. 90c:46014

Nakazi, Takahiko Complete spectral area estimates and self-commutators. 90a:47064

O'Farrell, A. G. (with Preskenis, K. J.) Uniform approximation by polynomials in two functions. 90k:30077

Ohno, Shōichi Restricted invertible Toeplitz operators. 90k:47056

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Socha, Nicolas On p -absolutely summing operators defined on function algebras. (Not in MR)

Takahasi, Shin-ichi (with Hatori, Osamu) Commutative Banach algebras which satisfy a Bochner-Schoenberg-Eberlein type theorem. 90m:46086

Trenholme, Alice R. Maximal abelian subalgebras of function algebras associated with free products. 90c:46073

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46J15 Banach algebras of differentiable or analytic functions, H^p -spaces [see also 30D55, 30H05, 32A35, 32E25, 42B30]

Axler, Sheldon (with Gorkin, Pamela) Algebras on the disk and doubly commuting multiplication operators. 90a:46133

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Carne, T. K. (with Cole, B.; Gamella, T. W.) A uniform algebra of analytic functions on a Banach space. 90k:46098

Clark, Douglas N. Restrictions of H^p functions in the polydisk. 90a:46135

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Eoff, C. M. Fréchet envelopes of certain algebras of analytic functions. 90g:46075

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Hedenmalm, Håkan On the f - and K -properties of certain function spaces. 90g:46076

— Closed ideals in the ball algebra. 90k:46120

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- Piotrowski, Itamar \star Quantum probability—quantum logic. 90a:81020
- Pöltz, R. Measures of noncompactness for bounded sets and linear operators in some Banach spaces. (Russian) 90i:47057
- *see also* Markus, A. S., 90i:47056
- Pták, Pavel *see* Narava, Mirko; et al., 90a:8106
- Pták, Vlastimil Linear fractional transformations and companion matrices. 90c:15006
- Palmannová, S. Some properties of transition amplitude spaces. (see 90a:00026)
- Reiter, Hans (with Thirring, W.) Are x and p incompatible observables? 90b:81016
- Ribarska, N. K. A Radon-Nikodým compact which is not a Gruenhage space. 90a:54073
- Rideau, G. Nontrivial extensions of a massless representation with definite helicity of the Poincaré group in $3+1$ dimensions by the tensor product of two other massless representations with definite helicity. 90c:22051
- Rückner, M. Traces of harmonic functions and a new path space for the free quantum field. 90b:81061
- Rogalewicz, Vladimir *see* Narava, Mirko; et al., 90a:8106
- Rogers, R. C. (with Temple, Blake) A characterization of the weakly continuous polynomials in the method of compensated compactness. 90b:35004
- Saeki, Sadahiro Some applications of Khintchine's inequalities. 90k:42047
- Saitoh, Saburo \star Theory of reproducing kernels and its applications. 90f:46045
- Salvadori, Anna *see* Martellotti, Anna, 90a:90041
- Schmale, Wiland On generic reachability over certain Banach algebras. 90a:46088
- Schmeel, John Infinite-dimensional Fock spaces and associated creation and annihilation operators. 90c:46049
- Schmid, Rudolf (with Simoni, Alberto) On infinite-dimensional variational principles with constraints. 90c:58039
- Segal, Irving Algebraic characterization of the vacuum for quantized fields transforming nonunitarily. 90b:81069
- Shipovskii, A. N. *see* Chillin, V. L., 90d:28023a and 90d:28023b
- Sikorskii, M. R. Some applications of Boolean-valued models to the study of operators on semi-normed spaces. (Russian) 90j:46046
- Simoni, Alberto *see* Schmid, Rudolf, 90c:58039
- Sordi, F. M. *see* De Michele, L., 90f:94020
- Sternfeld, Yakil Hilbert's 13th problem and dimension. 90j:54035
- Strocchi, F. *see* Morchio, G.; et al., 90a:81066
- Summers, Stephen J. (with Werner, Reinhard) Maximal violation of Bell's inequalities for algebras of observables in tangent spacetime regions. (French summary) 90d:81078
- Taira, Kazuaki \star Diffusion processes and partial differential equations. 90m:60089
- Tanaka, Ikuro *see* Imai, Naoki; et al., 90f:81060
- Temple, Blake *see* Rogers, R. C., 90b:35004
- Terra, J. \star Some algebras of Fourier series operators related to pseudo-differential operators. 90a:47134
- Thirring, W. *see* Reiter, Hans, 90b:81016
- Thomi, P. ERST quantization of the spinning particle. 90b:81047
- Todorov, I. T. *see* Bogolyubov, N. N.; et al., 90a:81001
- Ton-That, T. *see* Klink, W. H., 90d:22020
- Trapp, George E. *see* Anderson, William N., Jr., 90a:47108
- Truffert, Annick *see* Fourgures, Alain, 90d:49008
- Urbanik, K. Analytic stochastic processes. 90k:60103
- Valadier, M. Quelques résultats de base concernant le processus de rafle. [Some basic results concerning the sweeping process] 90g:34016

- Vervant, Wim Narrow and vague convergence of set functions. 90f:60068
- Voronin, A. V. *see* Khoruzhii, S. S., 90k:81102
- Wang, Chang Yu (with Chen, Guang Jun) Some properties of closed point-to-set mappings. (Chinese) 90i:90119
- Ward, J. A. Analytic functions which operate on homogeneous algebras. 90a:43003
- Werner, Reinhard *see* Summers, Stephen J., 90d:81078
- Wets, Roger J.-B. *see* Azé, D.; et al., 90g:90118
- Wieczorek, Andrzej Spot functions and peripherals: Krein-Milman type theorems in an abstract setting. 90f:52005
- Yannellis, Nicholas C. Weak sequential convergence in $L_p(\mu, X)$. 90k:46090

46P05 Functional analysis over fields other than \mathbb{R} or \mathbb{C} ; non-Archimedean functional analysis [see also 12J25, 32E27]

- Borrey, S. Semi-convex sets in vector spaces over a non-Archimedean complete valued field. 90k:46165
- De Grande-De Kimpe, N. (with Pérez-García, Cristina) Weakly closed subspaces and the Hahn-Banach extension property in p -adic analysis. 90a:46196
- The bidual of a non-Archimedean locally convex space. 90j:46067
- El Yaacoubi, M. Modules de Banach p -adiques plats et injectifs. (English summary) [Flat and injective p -adic Banach modules] 90g:46107
- Escassut, Alain (with Sarmant-Durix, Marie-Claude) The differential equation $y' = fy$ in the algebras $H(D)$. 90k:46166
- Gupta, Satish Chand *see* Siddiqi, A. H.; et al., 90g:46108
- Kiyosawa, Takemitsu On spaces of compact operators in non-Archimedean Banach spaces. 90i:46167
- Martínez-Maurica, J. (with Pérez-García, Cristina) F -spaces over local fields: the extension property. (Spanish. English summary) 90b:46137
- (with Pérez-García, Cristina) Non-Archimedean K -spaces. 90b:46111
- Pérez-García, Cristina Compactoid sets in p -adic locally convex spaces with the Hahn-Banach extension property. 90k:46168
- Non-Archimedean polar spaces and the strongest locally convex topology. 90k:46169
- *see also* De Grande-De Kimpe, N., 90a:46196; Martínez-Maurica, J., 90b:46137 and 90b:46111
- Pombo, Dinamérico P., Jr. Polynomials in topological vector spaces over valued fields. 90i:46128
- Sarmant-Durix, Marie-Claude *see* Escassut, Alain, 90k:46166
- Schikhof, W. H. The continuous linear image of a p -adic compactoid. 90c:46095
- p -adic nonconvex compactoids. 90k:46170
- Siddiqi, A. H. (with Gupta, Satish Chand; Siddiqi, Ataullah) On ultra m -metric spaces and non-Archimedean m -normed spaces. 90g:46108
- Siddiqi, Ataullah *see* Siddiqi, A. H.; et al., 90g:46108
- Somasundaram, D. Inclusion theorems on matrix transformations of some sequence spaces over non-Archimedean fields. IV. 90d:46104
- Srivastava, J. K. A study of bases and automorphisms in the space of analytic functions of several variables over non-Archimedean fields. 90g:46109
- Urbanik, Ryszard On modular spaces and p -critical modulars. (Russian summary) 90j:46068
- On modular and Orlicz space over a field with valuation. 90f:46120
- Vladimirov, V. S. Generalized functions over the field of p -adic numbers. 90c:46096
- Items with secondary classifications in 46P05
- Arefeva, I. Ya. (with Volovich, I. V.) Strings, gravity and p -adic space-time. 90m:81090
- Cherkov, V. G. Some operators in spaces of functions over a finite field. (Russian) (see 90m:00015)
- Daly, James E. Factorization of Hardy spaces on local fields. 90a:46049
- Missarow, M. D. Random fields on the adèle ring and Wilson's renormalization group. (French summary) 90m:81075
- Rangan, G. (with Selvamuthu, V.) Darboux continuous functions on non-Archimedean valued fields. 90c:26071
- Selvamuthu, V. *see* Rangan, G., 90c:26071
- Spokoiny, B. L. Non-Archimedean geometry and quantum mechanics. 90j:81071
- Su, Wei Yi Pseudodifferential operators in Besov spaces over local fields. 90b:47100
- Sushchanskii, V. I. Standard subgroups of the isometry group of the metric space of p -adic integers. (Ukrainian. Russian summary) 90k:11160
- Timotin, Dan C_p -estimates for certain kernels on local fields. 90a:42010
- Vladimirov, V. S. (with Volovich, I. V.) p -adic quantum mechanics. 90b:81049
- Volovich, I. V. *see* Vladimirov, V. S., 90b:81049 and Arefeva, I. Ya., 90m:81090
- Warner, Seth \star Topological fields. 90i:12012

46Q05 Nonstandard functional analysis [see also 03Hxx]

- Items with secondary classifications in 46Q05
- Benninghofen, B. *see* Stroyan, K. D.; et al., 90b:03097
- Brunet, Bernard Une démonstration nonstandard du théorème de représentation de Stone. [A nonstandard proof of the Stone representation theorem] 90b:46049
- Canela, M. A. (with Ralló, M.) On the Mackey convergence conditions. 90a:46006
- Gordon, E. I. Nonstandard finite-dimensional analogues of operators in $L_2(\mathbb{R}^n)$. 90a:47054
- Hirschfeld, Joram The nonstandard treatment of Hilbert's fifth problem. 90m:22021
- Kadelburg, Z. (with Radenović, S.) Stability of ultraproducts of linear topological spaces. (Serbo-Croatian summary) 90b:46136
- Kinoshita, Moto-o Nonstandard representations of distributions. I. 90b:46080
- Klimova, I. M. (with Tokarev, E. V.) A model-theoretic characterization of Hilbert spaces. 90c:46019
- Krupa, Andrzej (with Zawisza, Bogdan) Ultrapowers of unbounded selfadjoint operators. 90d:47026

- Katadeladze, S. S. Components of positive operators. 90j:47044
- Lamer, Gunter Applications de l'analyse non standard à l'approximation des semi-groupes d'opérateurs et aux équations d'évolution. (English summary) [Applications of nonstandard analysis to the approximation of operator semigroups and to evolution equations] 90h:47075
- Lyantse, V. E. On a perturbation that is infinitely small in the strong operator topology. 90k:47027
- Radenović, S. see Kadelburg, Z., 90b:46136
- Ralík, M. see Canela, M. A., 90b:46006
- Richter, M. M. see Stroyan, K. D.; et al., 90b:03097
- Stroyan, K. D. (with Benninghofen, B.; Richter, M. M.) Superinfinitesimals in topology and functional analysis. 90b:03097
- Todorov, T. D. Colombeau's generalized functions and nonstandard analysis. 90b:46087
- Tokarev, E. V. see Klimova, I. M., 90b:46019
- Zawisz, Bogdan see Krupa, Andrzej, 90b:47026

46R05 Constructive functional analysis [see also 03Fxx]

- Bridges, Douglas S. (with Julian, William; Mines, Ray) A constructive treatment of open and unopen mapping theorems. 90b:46105
- Ishihara, Hajime Constructive reflexivity of a uniformly convex Banach space. 90a:46198
- On the constructive Hahn-Banach theorem. 90a:46197
- Constructive compact linear mappings. 90k:46171
- Julian, William see Bridges, Douglas S.; et al., 90b:46105
- Mines, Ray see Bridges, Douglas S.; et al., 90b:46105
- Items with secondary classifications in 46R05
- Mandelkern, Mark Brouwerian counterexamples. 90c:01051
- Pour-El, Marian B. (with Richards, Ian) ★ Computability in analysis and physics. 90k:03062
- Richards, Ian see Pour-El, Marian B., 90k:03062

47-XX Operator theory

47-00 Handbooks, dictionaries, and other reference works

- Items with secondary classifications in 47-00
- (Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions. 90j:00004a
- Lyubich, Yu. I. Linear functional analysis. (Russian) 90j:00004b
- Items listed otherwise than by author
- Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 19. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 19] 90j:00004a
- Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 19. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 19] 90j:00004a

47-01 Elementary exposition; textbooks

- (Bade, W. G.) see Dunford, Nelson, 90g:47001a; 90g:47001b and 90g:47001c
- (Bartle, Robert G.) see Dunford, Nelson, 90g:47001a; 90g:47001b and 90g:47001c
- Beauzamy, Bernard ★ Introduction to operator theory and invariant subspaces. 90d:47001
- Dunford, Nelson (with Schwartz, Jacob T.) ★ Linear operators. Part I. 90g:47001a
- (with Schwartz, Jacob T.) ★ Linear operators. Part II. 90g:47001b
- (with Schwartz, Jacob T.) ★ Linear operators. Part III. 90g:47001c
- Schwartz, Jacob T. see Dunford, Nelson, 90g:47001a; 90g:47001b and 90g:47001c
- Thayer, Francisco Javier ★ Operadores auto-adjuntos e equações diferenciais parciais. (Portuguese) [Selfadjoint operators and partial differential equations] 90b:47001

Items with secondary classifications in 47-01

- Aizov, T. Ya. (with Iokhvidov, I. S.) ★ Linear operators in spaces with an indefinite metric. 90j:47042
- Carroll, Robert Wayne ★ Mathematical physics. 90g:00002
- Dautray, Robert (with Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 8. (French) [Mathematical analysis and computing for science and technology. Vol. 8] 90m:00066
- (Dawson, E. R.) see Aizov, T. Ya., 90j:47042
- Fomin, S. V. see Kolmogorov, A. N., 90b:46001
- Griffel, D. H. ★ Linear algebra and its applications. Vol. 2. 90f:15001b
- Hewer, Harro ★ Funktionalanalysis. (German) [Functional analysis.] 90m:46001
- Iokhvidov, I. S. see Aizov, T. Ya., 90j:47042
- Kesavan, S. ★ Topics in functional analysis and applications. 90m:46002
- Kolmogorov, A. N. (with Fomin, S. V.) ★ Элементы теории функций и функционального анализа. (Russian) [Elements of the theory of functions and functional analysis] 90b:46001
- Kreyszig, Erwin ★ Introductory functional analysis with applications. 90m:46003
- Kuzhelf, A. V. ★ Расширения эрмитовых операторов. (Russian) [Extensions of Hermitian operators] 90k:47052
- Lions, Jacques-Louis see Dautray, Robert, 90m:00066
- Maddox, I. J. ★ Elements of functional analysis. 90k:46002
- Murakami, Haruo ★ Kansukaiseki. (Japanese) [Functional analysis] 90b:46001

- Pedersen, Gert K. ★ Analysis now. 90b:46001
- (Tikhomirov, V. M.) see Kolmogorov, A. N., 90b:46001
- Young, Nicholas J. ★ An introduction to Hilbert space. 90b:46001

47-02 Advanced exposition (research surveys, monographs, etc.)

- Alpay, Daniel (with Gohberg, I.) Unitary rational matrix functions. 90m:47006
- Ball, Joseph A. Nevanlinna-Pick interpolation: generalizations and applications. 90g:47002
- (with Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. 90m:47002
- (with Cohen, Nir; Ran, A. C. M.) Inverse spectral problems for regular improper rational matrix functions. 90m:47005
- Bercovici, H. ★ Operator theory and arithmetic in H^∞ . 90b:47001
- Cohen, Nir see Ball, Joseph A.; et al., 90m:47005
- Dym, H. ★ J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. 90g:47003
- Gohberg, I. (with Kaashoek, M. A.; Ran, A. C. M.) Interpolation problems for rational matrix functions with incomplete data and Wiener-Hopf factorization. 90m:47003
- (with Kaashoek, M. A.) Regular rational matrix functions with prescribed pole and zero structure. 90m:47004
- (with Rubinstein, Sorin) Proper contractions and their unitary minimal completions. 90m:47007
- see also Ball, Joseph A.; et al., 90m:47002; Alpay, Daniel, 90m:47006 and Topics in interpolation theory of rational matrix-valued functions, 90m:47001
- Kaashoek, M. A. see Gohberg, I.; et al., 90m:47003 and 90m:47004
- Larson, David R. Triangularity in operator algebras. 90b:47002
- Ran, A. C. M. see Gohberg, I.; et al., 90m:47003 and Ball, Joseph A.; et al., 90m:47005
- Rodman, Leiba see Ball, Joseph A.; et al., 90m:47002
- Rubinstein, Sorin see Gohberg, I., 90m:47007

Items listed otherwise than by author

Topics in interpolation theory of rational matrix-valued functions ★ Topics in interpolation theory of rational matrix-valued functions. 90m:47001

Items with secondary classifications in 47-02

- Belitskii, G. R. (with Lyubich, Yu. I.) ★ Matrix norms and their applications. 90b:15003
- Bukhvalov, A. V. Order-bounded operators in vector lattices and spaces of measurable functions. (Russian) 90c:47062
- Davidson, Kenneth R. ★ Nest algebras. 90b:47062
- Gantmakher, F. R. ★ Теория матриц. (Russian) [Theory of matrices] 90a:15001
- (Iacob, Andrei) see Belitskii, G. R., 90b:15003
- (Lidskii, V. B.) see Gantmakher, F. R., 90a:15001
- Lyubich, Yu. I. see Belitskii, G. R., 90b:15003
- Pour-El, Marian B. (with Richards, Ian) ★ Computability in analysis and physics. 90k:03062
- (Quandt, Jürgen) see Zeidler, Eberhard, 90b:00004
- Richards, Ian see Pour-El, Marian B., 90k:03062
- Rodman, Leiba ★ An introduction to operator polynomials. 90k:47032
- Singh, U. N. Shift operators—the building blocks of operator theory. 90c:47054
- Volkmer, Hans ★ Multiparameter eigenvalue problems and expansion theorems. 90d:47021
- Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. 90b:00004

Items listed otherwise than by author

Lecture Notes in Mathematics see Volkmer, Hans, 90d:47021

47-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 47-04

- Kukareko, E. P. see Pashkevich, A. P., (Not in MR)
- Pashkevich, A. P. (with Kukareko, E. P.) An iterative algorithm for solving an inverse problem of kinematics. (Russian) (Not in MR)

47-06 Proceedings, conferences, etc.

- (Gohberg, I.) see Contributions to operator theory and its applications, 90d:47002
- (Helton, J. W.) see Contributions to operator theory and its applications, 90d:47002
- (Nikol'skii, N. K.) see Toeplitz operators and spectral function theory, 90h:47001
- (Rodman, Leiba) see Contributions to operator theory and its applications, 90d:47002

Items listed otherwise than by author

Conference:

- Operator Theory and Functional Analysis ★ Contributions to operator theory and its applications. 90d:47002
- Contributions to operator theory and its applications ★ Contributions to operator theory and its applications. 90d:47002
- Linear operator theory and its boundaries ★ Senkei sayōsōron to sono shūhen. (Japanese) [Linear operator theory and its frontiers] 90k:47001
- Mesa, AZ ★ Contributions to operator theory and its applications. 90d:47002
- Méthodes topologiques en analyse convexe ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] 90m:47008
- Montreal, PQ ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] 90m:47008
- NATO Advanced Study Institute: Variational Methods in Nonlinear Problems ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] 90m:47008
- Spectral and scattering theories of differential operators and related topics ★ Bibunsayoso no supekutoru sanran riron to sono shūhen. (Japanese) [The spectral and scattering theories of differential operators and related topics] 90d:47003

Symposium:

- Linear Operator Theory and its Boundaries** ★ Senkei sayōdōron to sono shūhen. (Japanese) [Linear operator theory and its frontiers] 90k:47001
- Spectral and Scattering Theories of Differential Operators and Related Topics** ★ Bibunsayoso no supekutoru sanran riron to sono shūhen. (Japanese) [The spectral and scattering theories of differential operators and related topics] 90d:47003
- Toeplitz operators and spectral function theory** ★ Toeplitz operators and spectral function theory. 90h:47001
- Topological methods in convex analysis** ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] 90m:47008

Items with secondary classifications in 47-06

- (Clément, Philippe) see Semigroup theory and applications, 90b:00010
- (Colella, David) see Commutative harmonic analysis, 90a:43001
- (Da Prato, G.) see Volterra integrodifferential equations in Banach spaces and applications, 90d:00047
- (Dym, H.) see Gohberg anniversary collection, 90k:00026 and 90k:00027
- (Gill, Topper L.) see Nonlinear semigroups, partial differential equations and attractors, 90f:00006
- (Gohberg, I.) see Gohberg anniversary collection, 90k:00026 and 90k:00027
- (Goldberg, Seymour) see Gohberg anniversary collection, 90k:00026 and 90k:00027
- (Holden, Helge) see Schrödinger operators, 90j:00024
- (Iannelli, M.) see Volterra integrodifferential equations in Banach spaces and applications, 90d:00047
- (Iavernizi, Sergio) see Semigroup theory and applications, 90b:00010
- (Jensen, Arne) see Schrödinger operators, 90j:00024
- (Kashuev, M. A.) see Gohberg anniversary collection, 90k:00026 and 90k:00027
- (Lancaster, Peter) see Gohberg anniversary collection, 90k:00026 and 90k:00027
- (Martín Peinado, Elena) see Geometric aspects of Banach spaces, 90h:46001
- (Mitidieri, Enzo) see Semigroup theory and applications, 90b:00010
- (Plans, Antonio) see Geometric aspects of Banach spaces, 90h:46001
- (Prösdorf, Siegfried) see Seminar: Analysis, 90d:00032 and 90m:00028
- (Rodés-Udán, Alvaro Angel) see Geometric aspects of Banach spaces, 90h:46001
- (Silbermann, Bernd) see Seminar: Analysis, 90d:00032 and 90m:00028
- (Tsalyuk, Z. B.) see Integral operators and equations, 90a:00005
- (Vrabie, Ioan I.) see Semigroup theory and applications, 90k:00010
- (Zachary, Woodford W.) see Nonlinear semigroups, partial differential equations and attractors, 90f:00006

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- Berlin ★ Seminar Analysis. 90d:00032
- ★ Seminar Analysis. 90m:00028
- Calgary, AB ★ The Gohberg anniversary collection. Vol. I. 90k:00026
- ★ The Gohberg anniversary collection. Vol. II. 90k:00027
- Canton, NY ★ Commutative harmonic analysis. 90a:43001
- Commutative harmonic analysis ★ Commutative harmonic analysis. 90a:43001
- Conference:
- Commutative Harmonic Analysis ★ Commutative harmonic analysis. 90a:43001
- Operator Theory: Advances and Applications ★ The Gohberg anniversary collection. Vol. I. 90k:00026
- ★ The Gohberg anniversary collection. Vol. II. 90k:00027
- Riesz Spaces, Positive Operators and Applications ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. 90h:46002
- Volterra Integrodifferential Equations in Banach Spaces and Applications ★ Volterra integrodifferential equations in Banach spaces and applications. 90d:00047
- Contemporary Mathematics ★ Commutative harmonic analysis. 90a:43001
- Evolution equations and their applications ★ Hatten hōtēshiki to sono oyō. [Evolution equations and their applications] 90h:00004
- Geometric aspects of Banach spaces ★ Geometric aspects of Banach spaces. 90h:46001
- Gohberg anniversary collection ★ The Gohberg anniversary collection. Vol. I. 90k:00026
- ★ The Gohberg anniversary collection. Vol. II. 90k:00027
- Integral operators and equations ★ Интегральные операторы и уравнения. (Russian) [Integral operators and equations] 90a:00005
- Lecture Notes in Mathematics ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- Lecture Notes in Physics ★ Schrödinger operators. 90j:00024
- Meeting:
- Trends in Semigroup Theory and Applications ★ Semigroup theory and applications. 90b:00010
- Nonlinear semigroups, partial differential equations and attractors ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- Oxford, MS ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. 90h:46002
- Proceedings:
- Conference on Riesz Spaces, Positive Operators and Applications ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. 90h:46002
- School:
- Schrödinger Operators ★ Schrödinger operators. 90j:00024
- Schrödinger operators ★ Schrödinger operators. 90j:00024
- Semigroup theory and applications ★ Semigroup theory and applications. 90b:00010
- Seminar:
- Analysis ★ Seminar Analysis. 90d:00032
- ★ Seminar Analysis. 90m:00028
- Sonderborg ★ Schrödinger operators. 90j:00024
- Symposium:
- Evolution Equations and their Applications ★ Hatten hōtēshiki to sono oyō. [Evolution equations and their applications] 90h:00004
- Nonlinear Semigroups, Partial Differential Equations and Attractors ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006

Trento ★ Volterra integrodifferential equations in Banach spaces and applications. 90d:00047

Trieste ★ Semigroup theory and applications. 90b:00010

Volterra integrodifferential equations in Banach spaces and applications ★ Volterra integrodifferential equations in Banach spaces and applications. 90d:00047

Washington, DC ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006

47Axx Single linear operators: general theory

47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)

- Bella, Marianna Singular values decomposition of linear operators on Hilbert spaces (the applications of the optimal features of the decomposition and numerical methods for the decomposition). (Hungarian. English summary) 90h:47002
- Bouldin, Richard Closure of invertible operators on a Hilbert space. 90m:47009
- Bryan, Robert Neff (with Kinyon, Michael K.; Tucker, Don H.) Coupled linear operators. 90a:47001
- Carja, Ovidiu Range inclusion for convex processes on Banach spaces; applications in controllability. 90g:47004
- Cross, R. W. (with Labuschagne, L. E.) Partially continuous and semicontinuous linear operators in normed spaces. 90i:47001
- Domanskii, E. N. Some properties of the range of a conjugate operator. (Russian) 90h:47003
- (with Ostrovskii, M. I.) Regularizability of operators inverse to linear injections and to the superpositions of them. 90d:47004
- Du, Hong Ke A note on the minimum modulus and similarity orbits of linear operators. (Chinese) 90h:47004
- Eriksson-Bique, Sirikka-Liisa (with Leutwiler, Heinz) A generalization of parallel addition. 90h:47005
- Foaf, V. P. A Borel-type set of convergence of a sequence of bounded linear operators in a Banach space. (Russian) 90j:47001
- Gohberg, I. (with Shalom, T.) On inversion of square matrices partitioned into nonsquare blocks. 90h:47006
- Gol'dshteyn, V. M. (with Kuz'minov, V. I.; Shvedov, I. A.) Normal and compact solvability of linear operators. 90k:47002
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- Bercovici, H. ★ Operator theory and arithmetic in H^∞ . 90e:47001
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- Chevreau, B. (with Pearcy, Carl) On the structure of contraction operators. I. 90b:47030a
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- Erdélyi, L. (with Wang, Sheng Wang) Equivalent conditions to the spectral decomposition property for closed operators. 90a:47084
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- Fan, Peng A note on local spectra and multicyclic hyponormal operators. 90a:47060
- Froelich, John Compact operators, invariant subspaces, and spectral synthesis. 90b:47078
- Gromov, A. L. Invariant subspaces of weighted shift operators. 90a:47074
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- Harrison, Kenneth J. see Davidson, Kenneth R., 90g:47085
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- Kérchy, László Isometric asymptotes of power bounded operators. 90f:47050
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- Mathes, D. Benjamin Operator ranges and completely bounded homomorphisms. 90c:47076
- Meng, Nan Hyponormal weighted shift operators. (Chinese. English summary) 90i:47028
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- Peligrad, C. A remark on invariant operator ranges. 90m:47036
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- Paulsen, Vern (with Power, Stephen) Lifting theorems for nest algebras. 90g:47010
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- Aleksandrov, E. L. (with Il'mushkin, G. M.) Moment operator problems. (Russian) (see 90i:00006)
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- Aizlov, T. Ya. Extension of invariant dual pairs. 90b:47039
- Ball, Joseph A. (with Foias, Ciprian; Helton, J. W.; Tannenbaum, Allen) A Poincaré-Dulac approach to a nonlinear Beurling-Lax-Halmos theorem. 90b:47112
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- Cowen, Carl C. (with Li, Shao Kuan) Hilbert space operators that are subnormal in the Krein space sense. 90b:47063
- Curgus, Branko Definitizable extensions of positive symmetric operators in a Krein space. 90b:47068
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- Friedrich, Jürgen (with Klotz, L.) On extensions of positive definite operator-valued functions. 90b:43005
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- Zemánek, Jaroslav Approximation of the Weyl spectrum. 90a:47012
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47A25 Spectral sets

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47A35 Ergodic theory [see also 28Dxx]

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- Makhtari, A. Distance entre éléments d'un semi-groupe continu dans une algèbre de Banach. [Distance between the elements of a continuous semigroup in a Banach algebra] 90b:46072
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- Bhatia, Rajendra (with Kittaneh, Fuad) On some perturbation inequalities for operators. 90b:47007
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 Codenotti, B. (with Favati, Paola; Flandoli, Franco) Perturbation analysis of algebraic Riccati equations. (Italian summary) 90h:15024
 Duggal, B. P. The operator inequality $P \leq A^*PA$. 90k:47048
 Eriksson-Bique, Sirkka-Liisa (with Leutwiler, Heinz) A generalization of parallel addition. 90b:47005
 Favati, Paola *see* Codenotti, B.; et al., 90h:15024
 Flandoli, Franco *see* Codenotti, B.; et al., 90h:15024
 Hsiao, Sheng Yen Mean ergodic theorems and linear functional equations. 90k:47018
 Jódar, Lucas Explicit solutions for Sturm-Liouville operator problems. II. 90c:34107
 — Iterative solutions of quadratic algebraic and differential operator problems. 90a:65129
 — Explicit solutions for Riccati operator differential equations. 90m:34019
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 Leutwiler, Heinz *see* Eriksson-Bique, Sirkka-Liisa, 90b:47005
 Redheffer, Ray (with Volkmann, Peter) Differential inequalities and divisibility in operator algebras. 90c:47037
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47A65 Structure theory

- Brown, S. W. Contractions with spectral boundary. 90b:47029
 — (with Chevreau, B.; Pearcy, Carl) On the structure of contraction operators. II. 90b:47030b
 Chevreau, B. (with Pearcy, Carl) On the structure of contraction operators. I. 90b:47030a
 — Sur les contractions à calcul fonctionnel isométrique. II. [On contraction operators with isometric functional calculus. II] 90b:47021
 — (with Exner, George; Pearcy, Carl) On the structure of contraction operators. III. 90b:47034
 — *see also* Brown, S. W.; et al., 90b:47030b
 Davidson, Kenneth R. Estimating the distance between unitary orbits. 90c:47025
 Exner, George *see* Chevreau, B.; et al., 90b:47034
 Herrero, Domingo A. Most quasidiagonal operators are not block-diagonal. 90b:47031
 Pearcy, Carl *see* Chevreau, B., 90b:47030a; Brown, S. W.; et al., 90b:47030b and Chevreau, B.; et al., 90b:47034
 Prunaru, B. On the structure of contraction operators with dominating spectrum. 90b:47045
 Takahashi, Katsutoshi On the reflexivity of contractions with isometric parts. 90m:47028
 Wu, Pei Yuan Contractions quasilinear to an isometry. 90m:47029
 Xie, Yi Feng Some properties of the C^* -algebra generated by the operators of the class $B_*(\mathbb{Q})$. (Chinese) 90b:47035
 Yu, Guo Liang Reducibility of a class of operators and their complete unitary invariants. (Chinese. English summary) 90a:47046
 Zajac, M. Lebesgue-type decomposition of Hilbert space contractions. 90b:47035

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- Beauzamy, Bernard The C_1 contractions. 90b:47015
 Bercovici, H. Jordan models and \ast -cyclic sets. 90a:47026
 — Factorization theorems for integrable functions. 90b:28005
 Cassier, Gilles Sur la classification de H. Bercovici, C. Foias et C. Pearcy concernant les algèbres duales. (English summary) [On the classification of H. Bercovici, C. Foias and C. Pearcy concerning dual algebras] 90c:47033
 Davidson, Kenneth R. Normal operators are diagonal plus Hilbert-Schmidt. 90b:47040
 Dixon, P. G. Generalized open mapping theorems for bilinear maps, with an application to operator algebras. 90c:46016
 Herrero, Domingo A. On the essential spectra of quasilinear operators. 90b:47006
 Lang, Patrick (with Locker, John) Spectral decomposition of a Hilbert space by a Fredholm operator. 90c:47017
 Locker, John *see* Lang, Patrick, 90c:47017
 Zarouf, F. Sur les opérateurs sous-normaux dans la classe A. [On subnormal operators in the class A] 90a:47066

47A66 (Non)quasitriangular, (non)quasidiagonal operators

Items with secondary classifications in 47A66

- Herrero, Domingo A. Most quasidiagonal operators are not block-diagonal. 90b:47031
 — The set of finite operators is nowhere dense. 90k:47041
 Murphy, G. J. Diagonality in C^* -algebras. 90c:46070

47A67 Representation theory

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- Arveson, William Continuous analogues of Fock space. III. Singular states. 90m:46118
 Bombal, Fernando (with Porras, B.) Strictly singular and strictly cosingular operators on $C(K, E)$. 90b:47032
 Chevreau, B. (with Galé, José E.) Banach algebra techniques and extensions of operator-valued representations. 90j:47014
 Choy, Stephen T. L. Positive operators and algebras of dominated measures. 90g:47055
 Galé, José E. *see* Chevreau, B., 90j:47014
 Horák, Karel (with Müller, Vladimir) Functional model for commuting isometries. 90d:47013
 Kaufman, Robert P. (with Petrakis, Minos; Riddle, Lawrence H.; Uhl, J. Jerry, Jr.) Nearly representable operators. 90b:47032
 Müller, Vladimir *see* Horák, Karel, 90d:47013
 Petrakis, Minos *see* Kaufman, Robert P.; et al., 90b:47032
 Porras, B. *see* Bombal, Fernando, 90b:47032
 Riddle, Lawrence H. *see* Kaufman, Robert P.; et al., 90b:47032
 Uhl, J. Jerry, Jr. *see* Kaufman, Robert P.; et al., 90b:47032
 Van Hamme, J. Closed densely defined linear operators in Hilbert spaces and their generalized inverses. 90a:47005

47A68 Factorization theory

- Daughtry, John (with Johns, Ronald) Arveson nests and operator factorization along commutative subspace lattices. 90c:47026
 Đỗ Công Khanh Regular factorization. (Russian. English summary) 90c:47027
 Gohberg, I. (with Goldberg, Seymour) Factorizations of semiseparable operators along continuous chains of projections. 90a:47047
 Goldberg, Seymour *see* Gohberg, I., 90a:47047
 Johns, Ronald *see* Daughtry, John, 90c:47026
 Lebre, A. B. Factorization in the Wiener algebra of a class of 2×2 matrix functions. 90m:47030
 Litvinchuk, G. S. (with Spitkovskii, I. M.) \star Factorization of measurable matrix functions. 90g:47030
 (Laderer, B.) *see* Litvinchuk, G. S., 90g:47030
 (Silbermann, Bernd) *see* Litvinchuk, G. S., 90g:47030
 Spitkovskii, I. M. Factorization of Hermitian matrix functions and classification of shifts in a space with an indefinite metric. (Russian) 90k:47036
 — *see also* Litvinchuk, G. S., 90g:47030
 Wu, Pei Yuan The operator factorization problems. 90g:47031
 Zhang, Gen Kai Wiener-Hopf operators and factorization of operators. (Chinese. English summary) 90b:47032

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- Arabadzhyan, L. G. Factorization of conservative Wiener-Hopf integral operators. 90g:47091
 Beitia, Ma. Asunción (with Zaballa, Ion) Factorization of the matrix polynomial $A(\lambda) = A_0\lambda^l + A_1\lambda^{l-1} + \dots + A_{l-1}\lambda + A_l$. 90g:15023
 de Branges, Louis Krein spaces of analytic functions. 90c:47060
 Chen, Tongwen (with Francis, Bruce A.) Spectral and inner-outer factorizations of rational matrices. 90d:30098
 Curtain, Ruth F. (with Ran, A. C. M.) Explicit formulas for Hankel norm approximations of infinite-dimensional systems. 90c:93054
 Daughtry, John Conditional expectations and invariant subspaces. 90k:47095
 Francis, Bruce A. *see* Chen, Tongwen, 90d:30098
 Georgiou, Tryphon T. (with Khargonekar, Pramod P.) Spectral factorization of matrix-valued functions using interpolation theory. 90d:93038
 Gohberg, I. (with Lerer, L.) Matrix generalizations of M. G. Krein theorems on orthogonal polynomials. (see 90k:41001)
 — (with Kaashoek, M. A.; Lancaster, Peter) General theory of regular matrix polynomials and band Toeplitz operators. 90a:47033
 Jarchow, Hans Factoring absolutely summing operators through Hilbert-Schmidt operators. 90b:46026
 Kaashoek, M. A. *see* Gohberg, I.; et al., 90a:47033
 Karlovich, Yu. I. (with Spitkovskii, I. M.) Factorization of almost periodic matrix functions and the Noether theory of certain classes of equations of convolution type. 90c:47034
 Khargonekar, Pramod P. *see* Georgiou, Tryphon T., 90d:93038
 Kon, B. A. Factorization of piecewise valued matrix functions and its applications. 90a:47034
 Lancaster, Peter *see* Gohberg, I.; et al., 90a:47033
 Lerer, L. *see* Gohberg, I., (90k:41001)
 Matter, Urs Factoring through interpolation spaces and super-reflexive Banach spaces. 90j:46065
 Mitrutsa, I. V. On the invertibility of the Vandermonde operator. (Russian) 90c:47023
 Pitts, David R. Factorization problems for nests: factorization methods and characterizations of the universal factorization property. 90a:46160
 Polteev, G. S. Equations and systems of a certain type in rings with factorization pairs. (Russian) 90c:45006
 Popescu, Gelu Multi-analytic operators and some factorization theorems. 90k:47019
 Power, Stephen Analysis in nest algebras. 90b:47079
 Ran, A. C. M. *see* Curtain, Ruth F., 90c:93054

- Rodman, Leiba ★ An introduction to operator polynomials. 90k:47032
 Spitkovskii, I. M. Factorization of almost-periodic matrix functions. 90k:47033
 — (with Tashbaev, A. M.) Factorization of piecewise constant matrix functions with 3 points of discontinuity in the classes $L_{p,p}$ and some of its applications. 90k:47057
 — see also Karlovich, Yu. I., 90k:47034
 Tashbaev, A. M. see Spitkovskii, I. M., 90k:47057
 Zaballa, Ion see Beitia, Ma. Asunción, 90k:15023

47A70 Eigenfunction expansions, rigged Hilbert spaces; eigenvalue problems in general [see also 49Gxx]

- Allakhverdiev, Dzh. E. (with Dzhabarzade, R. M.) A multiparameter system of operators that is nonlinearly dependent on the spectral parameter. 90g:47032
 — (with Dzhabarzade, R. M.) The spectrum of a multiparameter system and a spectral theorem. 90g:47033
 Almamedov, M. S. The spectral structure of selfadjoint multiparameter problems. 90k:47037
 Bekker, M. B. An integral representation of Hermitian-positive matrix kernels of a special structure. 90k:47022
 Binding, Paul (with Browne, Patrick J.) Classification of eigentuples for uniformly elliptic multiparameter problems. 90g:47034
 — Multiparameter root vectors. 90a:47048
 Browne, Patrick J. Two-parameter eigencurve theory. 90k:47038
 — see also Binding, Paul, 90g:47034
 Dolzhenko, I. V. Completeness of the system of eigenvectors of a linear operator in some locally convex spaces. (Russian) 90h:47036
 Dzhabarzade, R. M. see Allakhverdiev, Dzh. E., 90g:47032 and 90g:47033
 Fan, Ky A remark on orthogonality of eigenvectors. 90k:47023
 Fedik, M. M. A property of rigged Hilbert spaces. (Ukrainian. Russian summary) (Not in MR)
 Hook, Stephen M. Inequalities for eigenvalues of selfadjoint operators. 90k:47024
 Kulkarni, Rekha P. (with Limaye, Balmohan V.) On the error estimates for the Rayleigh-Schrödinger series and the Kato-Rellich perturbation series. 90a:47049
 Limaye, Balmohan V. (with Nair, M. Thamban) Localization results for eigenelements. 90a:47050
 — ★ Spectral perturbation and approximation with numerical experiments. 90a:47051
 — (with Nair, M. Thamban) Localization of a simple eigenvalue and a corresponding eigenvector. 90d:47020
 — see also Kulkarni, Rekha P., 90a:47049
 Mirzoev, G. G. Separation of the spectral parameters of a multiparameter eigenvalue problem. (Russian) 90k:47017
 Nagel, Bengt Introduction to rigged Hilbert spaces (RHS). (see 90i:81006)
 Nair, M. Thamban see Limaye, Balmohan V., 90a:47050 and 90d:47020
 Ragimov, M. B. On multiparameter spectral theory. (Russian) 90b:47033
 Sakhnovich, L. A. Asymptotics of spectral functions of an S-colligation. 90k:47025
 Verma, Ram U. Multiparameter spectral theory of a separating operator system. (Not in MR)
 Veselov, V. F. Bases of eigensubspaces of a nondissipative operator, and the characteristic function. 90a:47052
 Volkmer, Hans ★ Multiparameter eigenvalue problems and expansion theorems. 90d:47021
 Zabel, A. M. Integral representation of generalized invariant reflection positive matrix kernel. 90k:47019

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Items with secondary classifications in 47A70

- Akopyan, G. S. (with Aleksandryan, R. A.) Construction of generalized eigenfunctions for a linear pencil of differential operators in a space of vector functions. (Russian) 90m:47067
 Aleksandryan, R. A. see Akopyan, G. S., 90m:47067
 Ali, H. A. see Okb El-Bah, A. S.; et al., 90h:43006
 Binding, Paul (with Browne, Patrick J.) Eigencurves for two-parameter selfadjoint ordinary differential equations of even order. 90k:47038
 Biyarov, B. N. Volterra boundary value problems for the Sturm-Liouville equation. (Russian. Kazakh summary) 90k:47039
 Bolin, Nikolai S. A necessary and sufficient condition for existence of formal expansion on eigen and associated functions of the nonlocal Sturm-Liouville operator and sufficient conditions for completeness of its root subspaces. 90m:47061
 Browne, Patrick J. see Binding, Paul, 90k:47038
 D'yakov, E. G. (with Knyazev, Andrei Vladimirovich) ★ Об одном итерационном методе нахождения младших собственных чисел. (Russian) [An iterative method for finding the smallest eigenvalues]
 Faierman, M. (with Roach, G. F.) Full and partial-range eigenfunction expansions for a multiparameter system of differential equations. 90f:34044
 — (with Roach, G. F.) Eigenfunction expansions for a two-parameter system of differential equations. 90d:34050
 Farid, F. O. (with Lancaster, Peter) Spectral properties of diagonally dominant infinite matrices. I. 90b:47052
 Gilliam, David (with Schulenberg, J. R.; Lund, John R.) Spectral representation of the Laplace and Stieltjes transforms. (Portuguese summary) 90k:47021
 Karakhanian, M. I. Conditions for the completeness of a system of eigenvectors of a generalized normal operator. (Russian. English and Armenian summaries) 90f:22004
 Karl, Johann ★ Nichtlineare Umlaufeigenwertprobleme bei Differentialgleichungen im Komplexen. (German) [Nonlinear boundary eigenvalue problems for complex differential equations] 90j:34008
 Knyazev, Andrei Vladimirovich see D'yakov, E. G., (Not in MR)
 Kruszyński, Paweł Ring characterization of scalar product spaces and Gelfand triples. 90k:46039
 Lancaster, Peter see Farid, F. O., 90b:47052

- de Lange, O. L. An operator analysis for the Schrödinger, Klein-Gordon, and Dirac equations with a Coulomb potential. 90k:81035
 Larionov, E. A. Asymptotics of eigenvalues under weak perturbation of normal operators. 90k:47026
 Lei, Peng The eigenvalues of some integral matrices and their applications in transport theory. (Chinese. English summary) 90k:82110
 Lifshits, A. E. ★ Magnetohydrodynamics and spectral theory. 90k:76097
 Limaye, Balmohan V. (with Nair, M. Thamban) On the accuracy of the Rayleigh-Schrödinger approximations. 90g:47024
 Lund, John R. see Gilliam, David; et al., 90k:47021
 Marino, Giuseppe Iper-dual systems and Hilbert triplets. 90i:46046
 Mertins, Ulrich Zur Herleitung von Einschliessungssätzen für Eigenwerte. [On the derivation of inclusion theorems for eigenvalues] 90i:65102
 Möller, Manfred Equivalence of differential-boundary eigenvalue operators and their characteristic matrices. 90i:34027
 Nair, M. Thamban A note on Rayleigh-Schrödinger series. 90g:47025
 — see also Limaye, Balmohan V., 90g:47024
 Okb El-Bah, A. S. (with Zabel, A. M.; Ali, H. A.) Semi-direct product invariant kernels. 90h:43006
 Pyatkov, S. G. Some properties of eigenfunctions of linear pencils. 90i:47016
 Roach, G. F. see Faierman, M., 90d:34050 and 90f:34044
 Schulenberg, J. R. see Gilliam, David; et al., 90k:47021
 Sobirov, I. The existence of an n th eigenvalue of integral operators with nonnegative kernels. (Russian. Tajiki summary) 90j:47070
 Young, Nicholas J. ★ An introduction to Hilbert space. 90e:46001
 Zabel, A. M. see Okb El-Bah, A. S.; et al., 90h:43006
 Zifan, Peter An a posteriori error estimation of the Rayleigh-Ritz eigenvalues. 90d:35223

47A99 None of the above, but in this section

- Andruchow, Esteban (with Stojanoff, Demetrio) Nilpotent operators and systems of projections. 90k:47039
 — (with Stojanoff, Demetrio) Differentiable structure of similarity orbits. 90k:47040
 Chen, Jin Jian see Fang, Jie, 90h:47037
 Ding, Guang Gui The approximation problem of almost isometric operators by isometric operators. 90g:47035
 Fang, Jie (with Chen, Jin Jian) On some properties of approximate power class (N) operators. (Chinese. English summary) 90h:47037
 Fujii, Junichi (with Nakamura, Masahiro; Seo, Yūki) Convergence of sequences defined by operator means. 90k:47028
 Herrero, Domingo A. The set of finite operators is nowhere dense. 90k:47041
 Megan, Mihail (with Preda, P.) Admissibility and dichotomies for linear discrete-time systems in Banach spaces. 90m:47031
 — see also Preda, P., 90m:47032
 Melikhov, S. N. Matrix representation of some classes of linear operators. (Russian) (see 90d:00046)
 Munch, Niels Juul Compact causal data interpolation. 90k:47029
 Nakamura, Masahiro see Fujii, Junichi; et al., 90k:47028
 Preda, P. (with Megan, Mihail) Dichotomies and Lyapunov functions for discrete-time systems in Hilbert spaces. 90m:47032
 — see also Megan, Mihail, 90m:47031
 Rolewicz, S. On unconditional convergence of linear operators. 90k:47030
 Seo, Yūki see Fujii, Junichi; et al., 90k:47028
 Shen, You Xiang On class (M) quasicompactly compact operator sequences. (Chinese. English summary) 90k:47042
 Shervchik, V. V. Not strictly singular operators with nonclosed range. 90j:47017
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 Wei, Yong On uniform convergence of linear operators on the probabilistic normed space. 90k:47020

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- Ahués, Mario (with Carreño, Gloria; Telias, Mauricio) Iterative refinement for defective subspaces of differential operators. 90f:65079
 Arestov, V. V. Optimal recovery of operators and related problems. (Russian) 90g:41048
 Avishai, Y. see Livšic, M. S., 90m:58089
 Baltheel, Adhemar see Van Barel, Marc, 90k:93017
 Carreño, Gloria see Ahués, Mario; et al., 90f:65079
 Davidson, Kenneth R. Finite dimension problems in operator theory. 90m:47035
 Dilworth, S. J. Involutions on Banach spaces and reflexivity. 90k:46024
 Doyle, John C. see Glover, Keith, 90k:93020
 Foias, Ciprian (with Tannenbaum, Allen) On the parametrization of the suboptimal solutions in generalized interpolation. 90k:30070
 Glover, Keith (with Doyle, John C.) A state space approach to H_∞ optimal control. 90k:93020
 — (with McFarlane, Duncan) Robust stabilization of normalized coprime factor plant descriptions with H_∞ -bounded uncertainty. 90f:93052
 Grinberg, V. S. Wielandt-type estimates for primitive mappings of partially ordered sets. 90k:06007
 Hopfenwasser, Alan Hilbert-Schmidt interpolation in CSL-algebras. 90m:47057
 Hou, Jin Chuan Rank-preserving linear maps on $B(X)$. 90k:47100
 Jaffe, Arthur (with Lesniewski, Andrzej) Supersymmetric quantum fields and infinite-dimensional analysis. 90k:81104
 Kubrusly, C. S. A note on the Lyapunov equation for discrete linear systems in Hilbert space. 90k:39003
 Lesniewski, Andrzej see Jaffe, Arthur, 90k:81104
 Livšic, M. S. (with Avishai, Y.) A study of solitonic combinations based on the theory of commuting nonselfadjoint operators. 90m:58089
 Matsokis, A. M. A convergence criterion for the Schwartz method in a Hilbert space. (Russian) 90k:65107
 McFarlane, Duncan see Glover, Keith, 90k:93052

- Mishra, Shiva Kumar Some contributions to the theory of strongly and compactly nuclear trilinear forms. 90g:46067
- Motte, David L. The numerical computation of the minimal projection. 90d:65112
- Nisipennu, Marin Une généralisation d'un théorème de Orlicz. [A generalization of a theorem of Orlicz] 90g:46019
- Pap, Endre Weak convergence in a K -space. 90b:46008
- Paulsen, Vern (with Power, Stephen; Smith, R. R.) Schur products and matrix completions. 90j:46051
- Power, Stephen see Paulsen, Vern; et al., 90j:46051
- Ran, A. C. M. State space formulas for a model matching problem. 90c:93026
- Smith, R. R. see Paulsen, Vern; et al., 90j:46051
- Tannenbaum, Allen see Foias, Ciprian, 90k:30070
- Telias, Mauricio see Ahués, Mario; et al., 90f:65079
- Van Barel, Marc (with Bultheel, Adhemar) A minimal partial realization algorithm for data with relative errors. 90c:93017
- Verma, Madanpal S. Synthesis of H^∞ -optimal linear feedback systems. 90b:93028
- Voiculescu, Dan Property T and approximation of operators. 90m:46101

47Bxx Single linear operators: special classes of operators

47B05 Compact operators, Riesz operators

- Bhatia, Rajendra (with Kittaneh, Fuad) On the singular values of a product of operators. 90m:47033
- Gatto, Raoul (with Sartori, G.) Biunitarily diagonalizable families of compact linear operators. 90g:47036
- Huang, Lin see Zhao, Yong Dong, 90h:47038
- Kittaneh, Fuad see Bhatia, Rajendra, 90m:47033
- Sartori, G. see Gatto, Raoul, 90g:47036
- Swartz, Charles Unconditionally convergent series of compact operators. 90g:47037
- Tan, Ying Cai Locally sequentially compact (normal) operators and locally sequentially compact (normal) convergence. (Chinese) 90g:47038
- Volkman, Peter (with Wacker, Hans-Dieter) Certaines propriétés des opérateurs de Riesz. [Some properties of Riesz operators] 90f:47021
- Wacker, Hans-Dieter see Volkman, Peter, 90f:47021
- Zhao, Yong Dong (with Huang, Lin) The singular value decomposition of a compact bounded linear operator on l^2 space, and its application. (Chinese. English summary) 90h:47038
- Zhong, Hual Jie Some conditions for the West decomposition of Riesz operators. (Chinese. English summary) 90m:47034
- Riesz operators on the spaces $L_p(\mu)$ have West decompositions. (Chinese. English summary) 90c:47031

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- Aguayo, José (with Sánchez H., José A.) Weakly compact operators and the strict topologies. 90g:47053
- Alena, Pietro On Riesz and inessential operators. 90h:47025
- Auechmuty, Gilles Variational principles for eigenvalues of compact operators. 90j:49034
- Bertero, M. (with Bocacci, P.) Computation of the singular system for a class of integral operators related to data inversion in confocal microscopy. 90k:45011
- Bocacci, P. see Bertero, M., 90k:45011
- Bolla, Marianna Singular values decomposition of linear operators on Hilbert spaces (the applications of the optimal features of the decomposition and numerical methods for the decomposition). (Hungarian. English summary) 90h:47002
- Bombal, Fernando Operators in vector sequence spaces. (Spanish. English summary) 90a:47073
- Cho, Chung-Man Best approximation by compact operators. 90i:41041
- Cross, R. W. Properties of some norm related functions of unbounded linear operators. 90c:47010
- Dharmadhikari, N. S. see Singh, Raj Kishor, 90c:47057
- Drewnowski, L. Compact operators on Musielak-Orlicz spaces. 90b:47050
- Duggal, B. P. A remark on the essential spectra of quasi-similar dominant contractions. 90g:47044
- Feldman, William (with Kranz, P.; Porter, James F.) Dominated compact positive operators. 90k:47073
- Compact weighted composition operators on Banach lattices. 90f:47049
- Figura, Bogdan The spectra of certain class of composition operators. (Polish summary) 90j:47030
- Holsh, James R. Daugavet's equation and ideals of operators on $C[0, 1]$. 90g:47057
- Ishihara, Hajime Constructive compact linear mappings. 90k:46171
- Jahn, Karsten A note on compact Lamperti operators. 90m:47053a
- Errata: "A note on compact Lamperti operators". 90m:47053b
- Jódar, Lucas A note on the spectral decomposition of bounded operators. (Spanish. English summary) 90h:47058
- Kabra, Savita (with Singh, Raj Kishor; Vasudeva, H. L.) Composition operators on the functional Banach space $C^1([0, 1])$. 90b:47053
- Kamowitz, Herbert (with Scheinberg, Stephen; Wortman, Dennis) Compact endomorphisms of Banach algebras. II. 90b:46107
- Karapetyants, N. K. Convolution operators in Lipschitz classes. (Russian. English and Armenian summaries) 90j:47032
- Kranz, P. see Feldman, William; et al., 90k:47073
- Mathies, Martin Elementary operators on prime C^* -algebras. II. 90b:46093
- Mishra, Akshaya Kumar see Pattanayak, S.; et al., 90g:47059
- Mohapatra, C. K. see Pattanayak, S.; et al., 90g:47059
- O'Searcoid, Michael A contribution to the solution of the compact correction problem for operators on a Banach space. 90h:47027

- Pattanayak, S. (with Mohapatra, C. K.; Mishra, Akshaya Kumar) A new class of composition operators. 90g:47059
- Peng, Li Zhong (with Qian, Tao) A kind of multilinear operator and the Schatten-von Neumann classes. 90h:47067
- Porter, James F. see Feldman, William; et al., 90k:47073
- Qian, Tao see Peng, Li Zhong, 90h:47067
- Ricker, Werner Vector measures with values in the compact operators. 90f:28007
- Sánchez H., José A. see Aguayo, José, 90g:47053
- Scheinberg, Stephen see Kamowitz, Herbert; et al., 90b:46107
- Sersouri, A. Opérateurs diagonaux dans les espaces à bases. [Diagonal operators in spaces with basis] 90j:47053
- Shapiro, Joel H. (with Sundberg, Carl) Compact composition operators on L^1 . 90h:47035
- Shevchik, V. V. Dense embedding operators in Banach spaces. (Russian. English and Georgian summaries) 90m:46125
- Singh, Raj Kishor (with Dharmadhikari, N. S.) Compact and Fredholm composite multiplication operators. 90c:47057
- see also Kabra, Savita; et al., 90b:47053
- Sun, Chuan Kun The δ -numbers of elementary operators $\Gamma: T \rightarrow ATB$. (Chinese) 90h:47010
- Sundberg, Carl see Shapiro, Joel H., 90h:47035
- Unger, Ali Arens regularity of $K(X)$. 90b:47081
- Ustinov, G. M. Faces of the unit sphere of the space of compact operators. (Russian) 90m:47055
- Vasudeva, H. L. see Kabra, Savita; et al., 90b:47053
- Wortman, Dennis see Kamowitz, Herbert; et al., 90b:46107
- Zhang, Haitao Fredholm theory for morphisms in quotient Banach spaces. 90g:47021
- Zhao, Zhen Fan Linear operators in M -PN spaces. (Chinese. English summary) 90g:47084
- Zheng, De Chao Toeplitz operators and Hankel operators. 90b:47044
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47B10 Hilbert-Schmidt operators, trace class operators, nuclear operators, p -summing operators, etc.

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- Davies, E. B. *see* Abdessemed, A., **90c:47008**
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- Dym, H. Hermitian block Toeplitz matrices, orthogonal polynomials, reproducing kernel Pontryagin spaces, interpolation and extension. (see **90k:41001**)
- \star J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. **90g:47003**
- Faierman, M. (with Roach, G. F.) Full and partial-range eigenfunction expansions for a multiparameter system of differential equations. **90f:34044**
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- Ganchev, Alexander Christov (with Greenberg, William; van der Mee, C. V. M.) A class of linear kinetic equations in a Krein space setting. **90a:47030**
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- Cwikel, M. (with Jawerth, B.; Milman, Mario; Rochberg, Richard) Differential estimates and commutators in interpolation theory. 90k:46157
- Defranceschi, Anneliese G -convergence of cyclically monotone operators. 90e:49012
- Dempster, M. A. H. see Borwein, J. M., 90k:90161
- de Figueiredo, Djairo ★ Lectures on the Ekeland variational principle with applications and detours. 90j:49006
- Fochi, Margherita Functional equations on A -orthogonal vectors. 90f:39016
- Foias, Ciprian (with Tannenbaum, Allen) Weighted optimization theory for nonlinear systems. 90b:93038
- Frankowska, Halina High order inverse function theorems. 90k:58015
- Frasca, Michele (with Villani, Alfonso) A property of infinite-dimensional Hilbert spaces. 90d:46035
- Ger, R. Convex transformations with Banach lattice range. 90i:46007
- Gronau, D. see Aczél, J., 90b:39022
- Hofer, H. A strong form of the mountain pass theorem and application. 90b:58036
- Horsley, Anthony (with Wrobel, Andrzej J.) Subdifferentials of convex symmetric functions: an application of the inequality of Hardy, Littlewood, and Pólya. 90b:46090
- Jarosz, K. Nonlinear generalizations of the Banach-Stone theorem. 90b:46047
- Jawerth, B. see Cwikel, M.; et al., 90k:46157

- Kang, Byung Gai (with Park, Schie) On generalized ordering principles in nonlinear analysis. 90m:54039
- Khachatrian, R. A. (with Arutyunyan, V. V.) Cones of tangential directions in problems with operator constraints. (Russian. Armenian summary) 90e:49018
- Korytov, S. G. On the theory of the maximum principle. (Russian) 90f:90154
- Krasnoselskii, M. A. (with Pokrovskii, A. V.) ★ Systems with hysteresis. 90a:93001
- Kurakin, L. G. Semi-invariant form of criteria for stability of fixed points of a mapping in critical cases. (Russian) 90k:58103
- Kusraev, A. G. (with Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] 90c:46003
- Kutateladze, S. S. see Kusraev, A. G., 90c:46003
- Kutzarova, D. N. On condition (β) and Δ -uniform convexity. 90b:46039
- Lędziewicz-Kowalewska, Urszula A necessary condition for the extremal problems under Gateaux differentiability. 90b:49024
- Letvin, M. I. Characterization of the asymptotic stability of homogeneous potential operators by means of eigenvalues. 90k:34078
- Li, Cai Zhong see Mu, Li Bin, 90a:49018
- Lobanov, S. G. The chain rule and its converse for mappings of locally convex spaces. 90d:58018
- Malanowski, Kazimierz Sensitivity analysis of optimization problems in Hilbert space with application to optimal control. 90b:93039
- Maligranda, Lech On interpolation of nonlinear operators. 90k:46159
- Markus, A. S. (with Pöltz, R.) Various measures of noncompactness for linear operators in some Banach spaces. (Russian) 90i:47056
- Milman, Mario see Cwikel, M.; et al., 90k:46157
- Mu, Li Bin (with Li, Cai Zhong) A general notion of quasiconvexity and weak lower semicontinuity of nonlinear functionals. (Chinese) 90a:49018
- Németh, A. B. Domination of cones and subdifferentiability of convex operators. 90d:49010
- (Nieżgódka, Marek) see Krasnoselskii, M. A., 90a:93001
- Park, Schie see Kang, Byung Gai, 90m:54039
- Pavlov, G. A. On the uniqueness of the solution of an abstract inverse problem. 90c:31011
- Pham Ha's Sách Differentiability of set-valued maps in Banach spaces. 90e:49027
- Phelps, Robert R. ★ Convex functions, monotone operators and differentiability. 90g:46063
- Pokrovskii, A. V. see Krasnoselskii, M. A., 90a:93001
- Pöltz, R. see Markus, A. S., 90i:47056
- Przesławski, Krzysztof (with Yost, David Thomas) Continuity properties of selectors and Michael's theorem. 90d:49010
- Quittner, Pavol On the principle of linearized stability for variational inequalities. 90b:49014
- Rassias, Themistocles M. An application of variational calculus in mechanics and some properties of the eigenvalues of the Laplacian. 90a:58184
- Rochberg, Richard see Cwikel, M.; et al., 90k:46157
- Scheffler, H.-P. (with Schirotzek, W.) Necessary optimality for nonsmooth problems with operator constraints. (German and Russian summaries) 90k:49026
- Schep, Anton R. The measure of noncompactness of a disjointness preserving operator. 90k:46044
- Schirotzek, W. see Scheffler, H.-P., 90k:49026
- Serban-Tofan, Dolina (o)-continuous bilinear operators. (Romanian summary) 90a:47094
- Shkarin, S. A. see Bogachev, V. I., 90b:58019
- Strójas, H. M. see Borwein, J. M., 90k:90102
- Subramanian, P. K. A note on least two norm solutions of monotone complementarity problems. 90b:49005
- Szczypiński, Tomasz Nonlinear operator valued measures and integration. 90i:28014
- Szlagly, P. The Dirichlet problem for some nonlinear elliptic systems in unbounded domains. 90b:35090
- Pseudo-monotone operators in the study of nonlinear elliptic systems. 90b:35091
- Tannenbaum, Allen see Foias, Ciprian, 90b:93038
- Targóski, György (with Zdon, M. C.) ★ Substitution operators on L^p -spaces and their semigroups. 90e:47024
- Turinici, M. Metric variants of the Brézis-Browder ordering principle. 90m:06020
- Valadier, M. Un cas d'affinité d'une multifonction. [A case in which a multifunction is affine] (see 90a:00015)
- Villani, Alfonso see Frasca, Michele, 90d:46035
- Vũ Ngọc Phat Approximate controllability of nonlinear discrete systems in Banach spaces. 90i:93015
- Wang, Chang Yu (with Chen, Guang Jun) Some properties of closed point-to-set mappings. (Chinese) 90i:90119
- Włodarczyk, Kazimierz The angular derivative of Fréchet-holomorphic maps in J^* -algebras and complex Hilbert spaces. 90e:46066
- Wrobel, Andrzej J. see Horsley, Anthony, 90b:46090
- Yellott, John L., Jr. Constant volume operators and lateral inhibition. 90g:92108
- Yost, David Thomas see Przesławski, Krzysztof, 90d:49010
- Zabrejko, P. P. see Appell, Jürgen, 90a:47154
- Zdon, M. C. see Targóski, György, 90e:47024

49-XX Calculus of variations and optimal control; optimization [see also 34H05, 65Kxx, 90Cxx, 93-XX]

Items with secondary classifications in 49-XX

(Gabusov, R.) see Current problems in the theory of dynamical control systems, 90m:93001

(Gaishan, I. V.) *see* Current problems in the theory of dynamical control systems, 90m:93001
(Kirilova, F. M.) *see* Current problems in the theory of dynamical control systems, 90m:93001

Items listed otherwise than by author

Current problems in the theory of dynamical control systems ★ Актуальные задачи теории динамических систем управления. (Russian) [Current problems in the theory of dynamical control systems] 90m:93001

49-00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 49-00

Rodin, E. Y. A pursuit-evasion bibliography—version 2. 90f:90192

49-01 Elementary exposition; textbooks

Baumhach, Eckhard (with Hoffmann, Bernd-D.) Seifenhautflächen in verschiedenen regelmäßigen Körpern. I. Ein Problem der Mathematik und der Chemie. [Soap bubble surfaces in various regular bodies. I. A problem of mathematics and chemistry] 90b:49001a
— (with Hoffmann, Bernd-D.) Seifenhautflächen in verschiedenen regelmäßigen Körpern. II. [Soap bubble surfaces in various regular bodies. II] 90b:49001b
Hoffmann, Bernd-D. *see* Baumhach, Eckhard, 90b:49001a and 90b:49001b
Klingbeil, Eberhard ★ Variationsrechnung. (German) [Variational calculus] 90b:49002

Items with secondary classifications in 49-01

(Embarek, Djilali) *see* Smirnov, Vladimir Ivanovich, 90k:00002c
Fauré, Pierre ★ Analyse numérique. (French) [Numerical analysis] 90a:65146
Smirnov, Vladimir Ivanovich ★ Lehrang der höheren Mathematik. Teil IV/1. (German) [Course in higher mathematics. Part IV/1] 90k:00003a
— ★ Cours de mathématiques supérieures. Tome IV. Première partie. (French) [Course in higher mathematics. Vol. IV. Part One] 90k:00002c
de Spinadel, Vera W. Differential games and optimal control theory. 90m:90334
Vasil'ev, F. P. ★ Численные методы решения экстремальных задач. (Russian) [Numerical methods for solving extremal problems] 90g:65005

49-02 Advanced exposition (research surveys, monographs, etc.)

Aubin, Jean-Pierre (with Nepomniastchy, Pierre; Charles, Anne-Marie) ★ Explicit methods of optimization. 90k:49001
(Boron, Leo F.) *see* Zeidler, Eberhard, 90b:49005
Charles, Anne-Marie *see* Aubin, Jean-Pierre; et al., 90k:49001
Congedo, Giuseppe (with Tamanini, Italo) Notes on the regularity of minimizers of least area functionals. (Italian. English summary) 90b:49003
Dacorogna, Bernard ★ Direct methods in the calculus of variations. 90e:49001
Fraser-Andrews, G. Finding candidate singular optimal controls: a state of the art survey. 90b:49004
Hoffmann, Karl-Heinz¹ Steuerung freier Ränder. [Control of free boundaries] 90g:49001
Ishmukhametov, A. Z. *see* Vasil'ev, F. P.; et al., 90k:49001
Ivanenko, V. I. (with Mel'nik, V. S.) ★ Вариационные методы в задачах управления для систем с распределенными параметрами. (Russian) [Variational methods in control problems for systems with distributed parameters] 90a:49001
McShane, Edward James The calculus of variations from the beginning through optimal control theory. 90b:49001
Mel'nik, V. S. *see* Ivanenko, V. I., 90a:49001
Nepomniastchy, Pierre *see* Aubin, Jean-Pierre; et al., 90k:49001
(Orde, H. L. S.) *see* Aubin, Jean-Pierre; et al., 90k:49001
Orlov, Yu. V. ★ Теория оптимальных систем с обобщенными управлениями. (Russian) [Theory of optimal systems with generalized controls] 90a:49002
Popescu, Vasile ★ Control optimal pentru ecuații de evoluție. (Romanian) [Optimal control for evolution equations] 90k:49002
Potapov, M. M. *see* Vasil'ev, F. P.; et al., 90k:49001
Tamanini, Italo *see* Congedo, Giuseppe, 90b:49003
Vasil'ev, F. P. (with Ishmukhametov, A. Z.; Potapov, M. M.) ★ Обобщенный метод моментов в задачах оптимального управления. (Russian) [The generalized moment method in problems of optimal control] 90k:49001
Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. III. 90b:49005

Items with secondary classifications in 49-02

Afanasyev, V. N. (with Kolmanovskii, V. B.; Nosov, V. R.) ★ Математическая теория конструирования систем управления. (Russian) [Mathematical theory in the design of control systems] 90g:93001
Burov, I. A. *see* Emelyanov, S. V.; et al., 90e:93001
Clarke, F. H. ★ Optimization and nonsmooth analysis. 90g:49011
Emelyanov, S. V. (with Burov, I. A.; Levada, F. Yu.) ★ Подход к формализованному синтезу структур систем бинарного управления неопределенными нелинейными объектами. (Russian) [An approach to a formalized design of the structures of systems of binary control of indeterminate nonlinear objects] 90g:93001
(Fomenko, A. T.) *see* Giusti, Enrico, 90g:58024
Giusti, Enrico Quadratic functionals with splitting coefficients. 90b:49059
— ★ Максимальные поверхности и функции ограниченной вариации. (Russian) [Minimal surfaces and functions of bounded variation] 90g:58024
Haslinger, J. (with Neittaanmäki, Pekka) ★ Finite element approximation for optimal shape design. 90c:49010
Kolmanovskii, V. B. *see* Afanasyev, V. N.; et al., 90g:93001
Levada, F. Yu. *see* Emelyanov, S. V.; et al., 90e:93001
(Moreau, Jean-Jacques) *see* Nonsmooth mechanics and applications, 90j:73002
Neittaanmäki, Pekka *see* Haslinger, J., 90c:49010
Nosov, V. R. *see* Afanasyev, V. N.; et al., 90g:93001
(Panagiotopoulos, Panagiotis D.) *see* Nonsmooth mechanics and applications, 90j:73002

(Pluzhnikov, A. I.) *see* Giusti, Enrico, 90g:58024

(Quandt, Jürgen) *see* Zeidler, Eberhard, 90b:49004

White, Brian Cabell Some recent developments in differential geometry. 90k:53003
Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. 90b:00004
Zhang, Cheng Dian ★ Calculus of variations with multiple integration. 90g:49004

Items listed otherwise than by author

Nonsmooth mechanics and applications ★ Nonsmooth mechanics and applications. 90j:73002

49-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 49-03

(Gamkrelidze, R. V.) *see* Pontryagin, L. S., 90c:01141
Hildebrandt, Stefan (with Tromba, Anthony) ★ Panoptimum. (German) 90k:00007
— The calculus of variations today. 90k:01018
Pepe, Luigi Leonida Tonelli and the calculus of variations. (Italian) 90k:01043
Pontryagin, L. S. ★ Избранные научные труды. Том II. (Russian) [Selected scientific works. Vol. II] 90c:01141
Roxin, Emilio O. Preface: Thirty years of modern optimal control—a historical perspective. 90j:01104
(Shenitzer, A.) *see* Hildebrandt, Stefan, 90k:01018
(Tonelli, Leonida) *see* Pepe, Luigi, 90k:01043
Tromba, Anthony *see* Hildebrandt, Stefan, 90k:00007
Young, Laurence C. Remarks and personal reminiscences. 90k:01025

49-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 49-04

Evtushenko, Yu. G. (with Mazurik, V. P.) ★ Программное обеспечение систем оптимизации. (Russian) [Software for optimization systems] (Not in MR)
Mazurik, V. P. *see* Evtushenko, Yu. G., (Not in MR)

49-06 Proceedings, conferences, etc.

(Berdyshev, Yu. I.) *see* Nonsmooth problems of optimization and control, 90g:49002
(Chentsov, A. G.) *see* Nonsmooth problems of optimization and control, 90g:49002

Items listed otherwise than by author

Nonsmooth problems of optimization and control ★ Негладкие задачи оптимизации и управления. (Russian) [Nonsmooth problems of optimization and control] 90g:49002

Items with secondary classifications in 49-06

(Clarke, F. H.) *see* Nonsmooth optimization and related topics, 90i:93003
(Colombini, Ferruccio) *see* Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
(De Giorgi, E.) *see* Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
(Dem'yanov, V. F.) *see* Nonsmooth optimization and related topics, 90i:93003
(Deng, Zong Qi) *see* Ordinary differential equations and control theory, 90j:34001
(Giannessi, F.) *see* Nonsmooth optimization and related topics, 90i:93003
(Hiriart-Urruty, Jean-Baptiste) *see* Trends in mathematical optimization, 90f:90003
(Hoffmann, Karl-Heinz¹) *see* Trends in mathematical optimization, 90f:90003
(Lemaréchal, Claude) *see* Trends in mathematical optimization, 90f:90003
(Liang, Zhao Jun) *see* Ordinary differential equations and control theory, 90j:34001
(Liao, Xiao Xin) *see* Ordinary differential equations and control theory, 90j:34001
(Marino, Antonio) *see* Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
(Modica, Luciano) *see* Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
(Pachter, M.) *see* Pursuit-evasion differential games, 90a:90250
(Spagnolo, Sergio) *see* Partial differential equations and the calculus of variations, 90j:00010 and 90j:00011
(Wu, Ke Qian) *see* Ordinary differential equations and control theory, 90j:34001
(Yavin, Y.) *see* Pursuit-evasion differential games, 90a:90250
(Zowe, J.) *see* Trends in mathematical optimization, 90f:90003

Items listed otherwise than by author

Conference:

Optimization ★ Trends in mathematical optimization. 90f:90003
Ordinary Differential Equations and Control Theory ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] 90j:34001
Eric ★ Nonsmooth optimization and related topics. 90i:93003
Eree ★ Trends in mathematical optimization. 90f:90003
Nonsmooth optimization and related topics ★ Nonsmooth optimization and related topics. 90i:93003
Ordinary differential equations and control theory ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] 90j:34001
Partial differential equations and the calculus of variations ★ Partial differential equations and the calculus of variations. Vol. I. 90j:00010
— ★ Partial differential equations and the calculus of variations. Vol. II. 90j:00011
Pursuit-evasion differential games ★ Pursuit-evasion differential games. II. 90a:90250
School:
Nonsmooth Optimization and Related Topics ★ Nonsmooth optimization and related topics. 90i:93003

Special Issue:

- Pursuit-evasion differential games ★ Pursuit-evasion differential games. II. 90a:90250
 Trends in mathematical optimization ★ Trends in mathematical optimization. 90f:90003
 Wahan ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] 90j:34001

49Axx Existence theory for optimal solutions

49A05 Free problems in one independent variable

- Cesari, Lamberto (with Pucci, Patrizia) Remarks on discontinuous optimal solutions for simple integrals of the calculus of variations. 90b:49002
 Clarke, F. H. (with Loewen, P. D.) Variational problems with Lipschitzian minimizers. 90c:49003
 Loewen, P. D. see Clarke, F. H., 90c:49003
 Morozov, S. F. Discontinuous solutions of a class of problems of the calculus of variations. (Russian) 90g:49003
 Pucci, Patrizia see Cesari, Lamberto, 90b:49002

49A10 Problems involving ordinary differential equations, optimal control

- Ahangar, Reza Nonanticipating dynamical model and optimal control. 90a:49003
 Balachandran, Krishnan Existence of optimal control for nonlinear multiple-delay systems. 90c:49001
 Berbyuk, V. E. The use of first integrals in the problem of the optimal control of a linear system with a quadratic functional. (Russian) 90a:49004
 Goebel, Manfred (with Raitum, U. E.) Extension of optimal control problems. (Russian) 90i:49002
 Janković, Vladimir The linear optimal control problem with variable endpoints. (Not in MR)
 Kaczorek, Tadeusz The linear-quadratic optimal regulator for singular 2-D systems with variable coefficients. 90b:49006
 Kirichenko, S. B. Optimal impulse correction. 90j:49001
 Kogan, Jacob Existence of minimizers and "complete figure" in linear-quadratic problems of optimal control. 90b:49003
 Kowalik, Jan On the existence of optimal controls in antagonistic control systems. (Polish. English summary) 90c:49004
 Miller, B. M. Optimization of dynamical systems with generalized control. 90i:49003
 Motreanu, D. Generic finiteness in solving optimal control problems. 90a:49005
 Raitum, U. E. see Goebel, Manfred, 90i:49002
 Vaisfel'd, V. A. A stepwise algorithm for finding the optimal trajectory in optimal control problems with phase constraints. 90a:49006

Items with secondary classifications in 49A10

- Borison, V. F. (with Zelikin, M. I.) Regimes with switchings that become more frequent in a problem of the control of a robot. 90d:49006
 Colonius, F. (with Kliemann, W.) Infinite time optimal control and periodicity. 90c:49068
 Goh, C. J. (with Teo, Kok-Lay) Species preservation in an optimal harvest model with random prices. 90j:92034
 Gorelik, S. B. (with Kalinin, A. I.) The perturbation method for the optimization of linear systems of neutral type with small delay. (Russian) (see 90m:93001)
 Gusar, V. V. (with Kibenko, A. V.) On a control problem on the semi-axis. (Russian) 90g:93050
 Huang, Lin (with Li, Zhong) Fundamental theorem for optimal output feedback problem with quadratic performance criterion. (Not in MR)
 Kalinin, A. I. see Gorelik, S. B., (90m:93001)
 Kibenko, A. V. see Gusar, V. V., 90g:93050
 Kliemann, W. see Colonius, F., 90c:49068
 Lee, Sung J. (with Nashed, M. Z.) Constrained least-squares solutions of linear inclusions and singular control problems in Hilbert spaces. 90c:49006
 Li, Zhong see Huang, Lin, (Not in MR)
 Nashed, M. Z. see Lee, Sung J., 90c:49006
 Orlov, Yu. V. ★ Теория оптимальных систем с обобщенными управлениями. (Russian) [Theory of optimal systems with generalized controls] 90a:49002
 — A problem on the optimal control of delays. I. 90i:34121
 Ouyang, Liang A class of optimal feedback control systems on an infinite interval. (Chinese. English summary) 90j:93018
 Pan, Wei An inverse problem of linear optimal control. (Chinese. English summary) 90m:49027
 Pugliese, Andrea Optimal resource allocation in perennial plants: a continuous-time model. 90a:92022
 Revenko, V. V. see Zavalishchin, S. T., 90c:81031
 Rudolph, Helmut Näherungslösungen für eine Klasse von Steuerproblemen mit gemischten Restriktionen. (English summary) [Approximate solutions for a class of control problems with mixed restrictions] 90c:49005
 Teo, Kok-Lay see Goh, C. J., 90j:92034
 Trentelman, H. L. The regular free-endpoint linear quadratic problem with indefinite cost. 90i:49041
 Wyderka, Zdzisław Linear differential equations with measures as coefficients and the control theory. (Russian and Czech summaries) 90c:34005
 Zavalishchin, S. T. (with Revenko, V. V.) Optimization of the kinetic energy of a micro-object. (Russian) 90c:81031
 Zelikin, M. I. see Borison, V. F., 90d:49006

49A21 Free problems in two or more independent variables

- Alt, Hans Wilhelm On shape optimization of a turbine blade. 90a:49007

- Ambrosio, L. A compactness theorem for a new class of functions of bounded variation. (Italian summary) 90k:49005
 Bauman, Patricia (with Phillips, Daniel) A nonconvex variational problem related to change of phase. 90i:49004
 Boccardo, Lucio (with Schianchi, R.) A remark on the L^1 -regularity of the minima of functionals of the calculus of variations. 90f:49001
 Brandi, Primo see Cesari, Lamberto; et al., 90c:49002
 Carriero, M. see De Giorgi, E.; et al., 90j:49002
 Cesari, Lamberto (with Brandi, Primo; Salvadori, Anna) Existence theorems for multiple integrals of the calculus of variations for discontinuous solutions. 90c:49002
 Clarke, F. H. (with Vinter, R. B.) A regularity theory for variational problems with higher order derivatives. 90k:49006
 De Giorgi, E. (with Carriero, M.; Leaci, A.) Existence theorem for a minimum problem with free discontinuity set. 90j:49002
 Guseinov, F. V. Extension of multidimensional variational problems, and regular minimizing sequences. (Russian. English and Azerbaijani summaries) (Not in MR)
 Jian, Hui Yu A class of variational problems for multiple integrals. (Chinese. English summary) 90a:49008
 Leaci, A. see De Giorgi, E.; et al., 90j:49002
 Leizarowitz, Arle (with Mizel, Victor J.) One-dimensional infinite-horizon variational problems arising in continuum mechanics. 90b:49007
 Mizel, Victor J. see Leizarowitz, Arle, 90b:49007
 Phillips, Daniel see Bauman, Patricia, 90i:49004
 Salvadori, Anna see Cesari, Lamberto; et al., 90c:49002
 Schianchi, R. see Boccardo, Lucio, 90f:49001
 Vinter, R. B. see Clarke, F. H., 90k:49006
 Zhang, Cheng Dian ★ Calculus of variations with multiple integration. 90g:49004

Items with secondary classifications in 49A21

- Bangert, V. On minimal laminations of the torus. (French summary) 90e:58021
 Caffarelli, Luis A. A Harnack inequality approach to the regularity of free boundaries. II. Flat free boundaries are Lipschitz. 90b:35246
 Dierkes, Ulrich A classification of minimal cones in $\mathbb{R}^n \times \mathbb{R}^+$ and a counterexample to interior regularity of energy minimizing functions. 90b:49032
 Esteban, Maria J. (with Lions, P.-L.) Γ -convergence and the concentration-compactness method for some variational problems with lack of compactness. (French summary) 90a:49016
 Fonseca, I. (with Tartar, L.) The displacement problem for elastic crystals. 90m:73029
 Kuzin, I. A. Existence of a ground state for some nonlinear scalar fields. 90k:35093
 Lions, P.-L. see Esteban, Maria J., 90a:49016
 Masciola, E. Some remarks on nonconvex problems. 90b:49022
 Strugov, Yu. F. Existence of extremal mappings onto a cube. (Russian) 90k:30037
 Tartar, L. see Fonseca, I., 90m:73029

49A22 Problems involving partial differential equations, optimal control

- Avgerinos, Evgenios P. (with Papageorgiou, Nikolaos S.) Infinite horizon optimal control problems for semilinear evolution equations. 90j:49003
 Chen, Yun Feng An optimal control problem for a composite distributed parameter system. (Chinese. English summary) 90a:49009
 Džurina, M. T. Optimal control of linear loaded parabolic equations. 90g:49005
 Hlaváček, Ivan Shape optimization of elastic axisymmetric bodies. (Russian and Czech summaries) 90c:49003
 Kerimov, A. K. Sufficient conditions for optimality in an extremal problem with a free boundary. (Russian) 90d:49001
 Kowalewski, Adam Boundary control of distributed parabolic system with boundary condition involving a time-varying lag. 90a:49010
 Lagnese, John E. Infinite horizon linear-quadratic regulator problems for beams and plates. 90c:49002
 Mamedov, A. D. A problem of optimal variable control for the heat conduction process. 90d:49002
 — A problem of the optimal control of systems with distributed parameters with a delay of neutral type. (Russian) 90g:49006
 Moskalenko, A. I. Integral transformation of an optimal problem with finite-differential control. (Russian) 90c:49003
 Osipov, Yu. S. (with Suetov, A. P.) Qualitative problems in the theory of construction optimization. (Russian) 90c:49004
 Papageorgiou, Nikolaos S. Properties of the relaxed trajectories of evolution equations and optimal control. 90b:49008
 — see also Avgerinos, Evgenios P., 90j:49003
 Rabier, P. J. New existence results for some nonconvex optimization problems. 90f:49002
 Shelakhin, V. V. Existence theorem in the variational problem for compressible inviscid fluids. 90a:49011
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 Tudor, Constantin A stochastic differential game in Hilbert spaces. (Italian summary) 90c:93092

49A99 None of the above, but in this section

- Borgogno, Maria On an approximation method for a class of parametric Lagrange problems. (Italian. English summary) 90c:49024
 Radievskii, A. E. Existence of solutions in dynamic problems of multicriterion optimization. (Not in MR)

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- De Arcangelis, Riccardo On the convergence of nonlinear Beltrami type operators. 90j:30023
 Dochev, Docho T. (with Zhukovskii, V. I.) An SI-optimal solution of a multicriterial problem with uncertainty. (Bulgarian. English and Russian summaries) 90j:90106
 — see also Zhukovskii, V. I., 90j:90107
 Fujii, Nobuo Lower semicontinuity in domain optimization problems. 90c:49013
 Virga, Epifanio G. Drops of nematic liquid crystals. 90j:73019
 Zhukovskii, V. I. (with Dochev, Docho T.) A P2-optimal solution of a multicriterial problem with uncertainty. (Bulgarian. English and Russian summaries) 90j:90107
 — see also Dochev, Docho T., 90j:90106

49Bxx Necessary conditions and sufficient conditions for optimality

49B05 Free problems in one independent variable

- Diziglo, Bekir Eine Weiterführung der Variations- und Funktionalrechnung für die Anwendung in den Optimierungsverfahren. (English summary) [An extension of variational calculus and functional analysis to applications in optimization methods] 90c:49015
 Došlić, Z. (with Došlić, O.) On transformations of singular quadratic functionals corresponding to equation $(py')' + qy = 0$. 90c:49032
 Došlić, O. see Došlić, Z., 90c:49032
 Drakhlina, M. E. (with Makagonova, M. A.) Euler functional-differential equations. (Russian) 90c:49016
 Glasqinta, Mariano Some remarks on the regularity of minimizers. 90j:49010
 Heinricher, A. C. (with Mizel, Victor J.) The Lavrentiev phenomenon for invariant variational problems. 90c:49020
 Makagonova, M. A. see Drakhlina, M. E., 90c:49016
 Mizel, Victor J. see Heinricher, A. C., 90c:49020
 Sadyrbaev, F. Zh. Tonelli sets in a one-dimensional problem of the calculus of variations. (Russian) 90b:49028

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- Castro, F. M. de Oliveira Sur les équations de distribution. [On distribution equations] 90c:46077a

49B10 Problems involving ordinary differential equations, optimal control

- Andreeva, E. A. Sufficient conditions for optimality for optimal control problems with retarded argument. (Russian) (see 90m:00015)
 Arsenashvili, A. I. (with Tadumadze, T. A.) Necessary conditions for optimality for controllable systems of neutral type with variable structure and a continuous condition of succession. (Russian. English and Georgian summaries) 90c:49033
 Arutyunov, A. V. On the theory of the maximum principle in optimal control problems with phase constraints. 90b:49013
 Baker, Daniel R. Exact solutions to some minimum time problems with inequality state constraints. 90h:49012
 Banks, S. P. (with Iddir, N.) Bilinear systems in the frequency domain and an application to optimal control. 90a:49021
 Berkovitz, Leonard D. Optimal feedback controls. 90h:49013
 Brokate, Martin Optimal control of ODE systems with hysteresis nonlinearities. 90b:49018
 Clarke, F. H. (with Vinter, R. B.) Optimal multiprocesses. 90j:49011
 Dubovitskii, A. Ya. (with Dubovitskii, V. A.) Pointwise nontriviality of the maximum principle in problems with phase constraints. (Russian. English and German summaries) 90c:49029

Dubovitskii, V. A. see Dubovitskii, A. Ya., 90c:49029

- Erfurth, Horst (with Handschug, Michael) Eine notwendige Bedingung für ein Vektoroptimum bei speziellen Steuerproblemen. (English and Russian summaries) [A necessary condition for a vector optimum in special control problems] 90a:49022
 Geibel, Manfred On control problems for a quasilinear second order ordinary differential equation. 90c:49020
 — (with Raitums, Uldis) On necessary optimality conditions for systems governed by a two point boundary value problem. I. 90c:49019
 Handschug, Heidrun Eine nichtglatte Aufgabe der optimalen Steuerung mit Randkontaktbedingungen. (English summary) [A nonsmooth optimal control problem with boundary contact conditions] 90c:49013
 — A nonsmooth problem of optimal control. (Not in MR)
 Handschug, Michael see Erfurth, Horst, 90c:49022
 Hoang Xuan Phat Régulière Aufgaben der optimalen Steuerung mit linearen Zustandsrestriktionen. (English and Russian summaries) [Regular problems in optimal control with linear restrictions of state] 90c:49021
 — A solution method for regular optimal control problems with state constraints. 90c:49022
 Iddir, N. see Banks, S. P., 90c:49021
 Il'yanov, N. A. A study of singular points of a differential equation that determines the design of an optimal control. (Russian) 90b:49030
 Ilyutovich, A. E. Choice of a version of descent in an optimal control problem with mixed constraints. A decomposition approach. 90c:49019
 Isralov, I. I. (with Umarov, B. R.) An algorithm for solving a problem of terminal control of the minimum of maximal deviation of trajectories of linear systems. (Russian) 90h:49014
 Kamenskii, G. A. Variational and boundary value problems with deviating argument with asymmetric boundary conditions. (Russian) 90c:49023
 Karulina, N. I. A necessary optimality condition for bilinear systems. (Russian) 90c:49025
 Kasenally, E. M. see Limebeer, D. J. N., 90c:49020
 Kalkosz, Barbara (with Łojasiewicz, Stanisław, Jr.) The maximum principle without the adjoint equation. 90h:49015
 Kelley, Henry J. see Kumar, Renjith, 90d:49014
 Klötzler, Rolf On a distributional version of Pontryagin's maximum principle. 90b:49031
 Kolokol'nikova, G. A. Conditions for the optimality of impulse regimes in problems with terminal constraints. (Russian) 90c:49034
 Kostousov, V. B. A singular optimization problem under constraints on the phase coordinates. (Russian) 90c:49026
 Krivobok, I. G. Singular modes in linear optimal control problems with mixed constraints. I. 90c:49017
 Kukushkin, A. P. Control of motion in an arcwise connected space. (Russian) 90b:49032
 Kumar, Renjith (with Kelley, Henry J.) Singular optimal atmospheric rocket trajectories. 90c:49014
 Ledzewicz-Kowalewska, Urszula On some optimal control problems of differential equations with additional equality constraints. 90c:49014
 Limebeer, D. J. N. (with Kasenally, E. M.) Vector interpolation: applications to H^∞ -optimal control. 90c:49020
 Łojasiewicz, Stanisław, Jr. see Kalkosz, Barbara, 90h:49015
 Lyenko, A. I. A jump condition in a problem of the optimal control of a composite object. (Russian) 90c:49023
 Mansimov, K. B. Optimality of singular controls in systems with delay that are controllable by means of initial functions. (Russian) 90j:49012
 Mardanov, M. Dzh. Necessary conditions for second-order optimality in systems with delays in the presence of constraints. (Russian. English and Azerbaijani summaries) 90b:49033
 Mordukhovich, B. Sh. Optimization and approximation of differential inclusions. 90c:49015
 — Necessary conditions for optimality in nonsmooth control problems with nonfixed time. 90c:49035
 Murray, J. M. Optimal control problems with elastic collisions. 90c:49036
 Nikolskii, M. S. The maximum principle in a nonsmooth minimax problem of optimal control. 90b:49034
 Orlov, G. M. Optimal damping in a problem of optimal control. (Russian) (see 90h:00010)
 — Sufficient conditions for optimality for a class of problems in control theory. (Russian. English summary) (Not in MR)
 Osmolovskii, N. P. Higher-order necessary and sufficient conditions for Pontryagin and restricted-strong minima in an optimal control problem. 90c:49027
 Raitums, Uldis see Geibel, Manfred, 90c:49019
 Seseikin, A. N. Optimal control of a linear system with a bounded resource. (Russian) 90c:49037
 Serger, G. Sufficient optimality conditions for nonconvex control problems with state constraints. 90c:49018
 Subbotina, N. N. The maximum principle and the superdifferential of the value function. (Russian summary) 90h:49016
 Tadumadze, T. A. see Arsenashvili, A. I., 90c:49033
 Umarov, B. R. see Isralov, I. I., 90h:49014
 Vinter, R. B. A unified treatment of some nonstandard problems in dynamics optimization. (see 90j:93003)
 — see also Clarke, F. H., 90j:49011
 Vyazgin, V. A. Optimality of a field of Pontryagin extremals. (Not in MR)
 Wu, Han Sheng First-order and second-order necessary conditions for optimality of singular controls. 90c:49028
 Zabell, L. E. On the theory of necessary conditions for optimality in problems with integral constraints. (Russian) (see 90m:93001)
 Zeldin, Vera Sufficiency conditions with minimal regularity assumptions. 90d:49016
 Zyskowski, Janusz A necessary condition in some Slater optimal control problem. (Russian and Polish summaries) 90c:49038

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- Amrakhov, Sh. G. Sufficient conditions for optimality on an infinite time interval. (Russian) 90c:49044

- Avakov, E. R. Necessary conditions for a minimum for nonregular problems in Banach spaces. The maximum principle for abnormal optimal control problems. (Russian) **90a:49025**
- Berbyuk, V. E. The use of first integrals in the problem of the optimal control of a linear system with a quadratic functional. (Russian) **90a:49004**
- (Bernhard, Pierre) *see* Zeidan, Vera, **90b:49041**
- Carlson, Dean Erratum: "Carathéodory-Hamilton-Jacobi theory for nonsmooth problems of Lagrange and problems of optimal control" [J. Math. Anal. Appl. **112** (1985), no. 1, 259-273; MR **87e:49054**]. **90m:49020**
- Chaney, R. W. Second-order sufficient conditions in nonsmooth optimization. **90b:90112**
- Clarke, F. H. (with Vinter, R. B.) Application of optimal multiprocesses. **90c:93066**
- Cook, Gerald Counter-examples to Johnson's LQR propriety limits. **90c:49038**
- Devdariani, S. Ya. An optimal control problem for the operation of a hydroelectric station in a power system. (Russian. English and Georgian summaries) (Not in MR)
- Fokeeva, M. Yu. Synthesis of linear systems with a phase constraint. (Russian) **90d:49024**
- Gómez Fernández, Juan Alfredo Optimal control of nonlinear retarded systems with phase constraints. **90d:34156**
- Hankerson, Darrel (with Henderson, Johnny) Optimality for boundary value problems for Lipschitz equations. **90c:34033**
- Hati, S. K. (with Rao, S. S.) A new approach in determining the existence and nonexistence of optimal solution of vibrating structures via the Pontryagin minimum principle. (see **90d:73001**)
- Henderson, Johnny Boundary value problems for n th order Lipschitz equations. **90c:34038**
- *see also* Hankerson, Darrel, **90c:34033**
- Janković, Vladimir The linear optimal control problem with variable endpoints. (Not in MR)
- (Johnson, C. D.) *see* Cook, Gerald, **90c:49038**
- Kolmanovskii, V. B. (with Koroleva, N. L.) Optimal control of some bilinear systems with aftereffect. (Russian) **90j:34108**
- Koroleva, N. L. *see* Kolmanovskii, V. B., **90j:34108**
- Krener, Arthur J. (with Schättler, H.) The structure of small-time reachable sets in low dimensions. **90i:49046**
- Ledyayev, Yu. S. (with Mishchenko, E. F.) Extremal problems in the theory of differential games. (Russian) **90c:90258**
- Ledzewicz-Kowalewska, Urszula A necessary and sufficient condition for Altman's maximal element problem for constraint sets with many equalities. **90c:49045**
- Litvinchev, I. S. Decomposition in dynamic problems with mixed constraints. (Russian) (Not in MR)
- Mardanov, M. Dzh. Necessary second-order conditions in systems with delays with a free right end. (Russian) (see **90d:00008**)
- Melvin, W. W. *see* Miele, A.; et al., (Not in MR)
- Mesterova-Gibbons, M. On the optimal policy for combining harvesting of predator and prey. **90h:92021a**
- Errata: "On the optimal policy for combined harvesting of predator and prey". **90h:92021b**
- Miele, A. (with Wang, Tong; Melvin, W. W.) Penetration landing guidance trajectories in the presence of windshear. (Not in MR)
- Mishchenko, E. F. *see* Ledyayev, Yu. S., **90c:90258**
- Orlov, Yu. V. ★ Теория оптимальных систем с обобщенными управлениями. (Russian) [Theory of optimal systems with generalized controls] **90a:49002**
- A problem on the optimal control of delays. I. **90i:34121**
- A problem on the optimal control of delays. II. **90i:34122**
- Pashaev, A. B. A game-theoretic problem with finitely additive programs. I. **90k:90193**
- Pesch, Hans Josef Real-time computation of feedback controls for constrained optimal control problems. I. Neighbouring extremals. **90g:93042**
- Pesheva, Yuliyana Khr. Optimization of a linear terminal criterion on the trajectories of a linear system with delay. (Russian) **90a:34176**
- Plotnikova, S. V. Investigation of time optimality properties. (Russian) **90h:93053**
- Pluglese, Andrea Optimal resource allocation in perennial plants: a continuous-time model. **90a:92022**
- Rao, S. S. *see* Hati, S. K., (90d:73001)
- Rockafellar, R. T. Hamiltonian trajectories and duality in the optimal control of linear systems with convex costs. **90i:49017**
- Schättler, H. *see* Krener, Arthur J., **90i:34122**
- Smirnov, G. V. Extremal problems for differential inclusions with phase constraints. **90c:49072**
- Vesely, G. V. Modeling of individual migration movement between regions. **90k:92068**
- Vinter, R. B. *see* Clarke, F. H., **90c:93066**
- Vorob'ev, N. N., Jr. *see* Zubov, I. V., **90f:93002**
- Wang, Tong *see* Miele, A.; et al., (Not in MR)
- Yafraev, M. F. Control of a dynamical system with intermediate conditions. (Russian) **90c:49028**
- Yakovleva, A. P. An optimal control problem for a difference inclusion with aftereffect. (Russian. English summary) (Not in MR)
- Zalmai, G. J. A transposition theorem with applications to constrained optimal control problems. **90h:49011**
- Zeidan, Vera (with Zezza, Pier Luigi) Conjugate points and optimal control: counterexamples. Comment on: "The theory of the second variation and the linear-quadratic problem" (French) [Advances in Hamiltonian systems (Rome, 1981), 109-142, Birkhäuser Boston, Boston, MA, 1983; MR **85e:49046**] by P. Bernhard. **90b:49041**
- Zeza, Pier Luigi *see* Zeidan, Vera, **90b:49041**
- Zubov, I. V. (with Vorob'ev, N. N., Jr.) ★ Качественный анализ процессов управления. (Russian) [Qualitative analysis of control processes] **90f:93002**
- and polyconvexity in dimensions 2 and 3] **90c:49029**
- Biot, Joël Calcul des variations en moyenne temporelle. (English summary) [Calculus of variations in time mean] **90c:49035**
- Bustos, Manuel Solutions approchées de problèmes de calcul des variations. (English summary) [Approximate solutions of problems in the calculus of variations] **90m:49013**
- Fusco, N. *see* Acerbi, E., **90f:49019**
- Grässer, H. S. P. Variational approach to focal points for systems of fourth order differential equations. (Italian summary) **90c:49030**
- Hardt, R. (with Kinderlehrer, D.; Lin, Fang-Hua) Stable defects of minimizers of constrained variational principles. (French summary) **90c:49039**
- Janković, Vladimir Necessary conditions in a problem of calculus of variations. (Not in MR)
- Kinderlehrer, D. *see* Hardt, R.; et al., **90c:49039**
- Klötzler, Rolf Steuerungstheoretische Behandlung einer Schachtelaufgabe. (English and Russian summaries) [Control-theoretic treatment of a boxing problem] **90c:49020**
- Lia, Fang-Hua *see* Hardt, R.; et al., **90c:49039**
- Lions, P.-L. Symmetry breakings in vector-valued minimization problems? **90c:49040**
- Pleshchinskii, N. B. An analogue of the Bolza problem. **90h:49017**
- Sagan, Hans On a quasi-regular Lagrange problem. **90m:49014**
- Schianchi, R. An estimate for the minima of the functionals of the calculus of variations. **90c:49036**
- Suvorov, S. G. The Stokes problem with a nonlinear source. (Russian) (see **90k:00021**)
- Zeidan, Vera (with Zezza, Pier Luigi) Coupled points in the calculus of variations and applications to periodic problems. **90c:49037**
- Zeza, Pier Luigi *see* Zeidan, Vera, **90b:49041**
- Items with secondary classifications in 49B21
- Anastasiu, M. *see* Miron, Radu; et al., **90m:58008**
- Biot, Joël Lagrange multipliers in variational problems in mean. **90a:49033**
- Caffarelli, Luis A. Free boundary problems. A survey. **90f:35208**
- Castro, F. M. de Oliveira Sur les équations de distribution. II. (English summary) [On distribution equations. II] **90i:46077b**
- Clarke, F. H. (with Vinter, R. B.) A regularity theory for variational problems with higher order derivatives. **90c:49066**
- Correa, Rafael (with Hirari-Urruty, Jean-Baptiste) A first order sufficient condition for optimality in nonsmooth optimization. **90m:90299**
- Dierkes, Ulrich Boundary regularity for solutions of a singular variational problem with linear growth. **90h:35107**
- Hirari-Urruty, Jean-Baptiste *see* Correa, Rafael, **90m:90299**
- Jian, Hui Global Lipschitz continuity for certain variational problems of multiple integrals. (Chinese. English summary) **90i:49013**
- Kirkovits, Magdalen Sz. *see* Miron, Radu; et al., **90m:58008**
- Lewis, Debra Nonlinear stability of a rotating planar liquid drop. **90h:76062**
- Matsumoto, Makoto The inverse problem of variation calculus in two-dimensional Finsler space. **90i:53030**
- Miron, Radu (with Kirkovits, Magdalen Sz.; Anastasiu, M.) A geometrical model for variational problems of multiple integrals. **90m:58008**
- Vinter, R. B. *see* Clarke, F. H., **90c:49066**
- 49B22 Problems involving partial differential equations, optimal control**
- Abergel, F. (with Temam, R.) Optimality conditions for some nonqualified problems of distributed control. **90d:49017**
- Amouroux, M. (with Benbrik, A.) Contrôle optimal de systèmes à paramètres distribués bilinéaires de type Dirichlet. (English summary) [Optimal control of bilinear distributed-parameter systems of Dirichlet type] **90b:49018**
- Arguchintsev, A. V. On a search for optimal boundary controls in two-dimensional semilinear hyperbolic equations. (Russian) **90d:49018**
- Benbrik, A. *see* Amouroux, M., **90b:49018**
- Bilić, Nataša Necessary conditions for an optimal distributed control problem governed by generalized nonstationary Navier-Stokes equations. (Serbo-Croatian summary) **90f:49021**
- Bonnans, Joseph Frédéric (with Casas Renteria, Eduardo) Optimal control of semilinear multistate systems with state constraints. **90f:49022**
- Casas Renteria, Eduardo *see* Bonnans, Joseph Frédéric, **90f:49022**
- Chan, W. L. (with Ho, Lop Fat) Optimal control of the Laplace equation with Cauchy data as control variables. **90g:49015**
- Drogovoz, A. M. Optimal control of a transition process in complex dynamical systems on a finite time interval. (Russian) (Not in MR)
- Ho, Lop Fat *see* Chan, W. L., **90g:49015**
- Kazemi-Dehkordi, M. A. (with Shin, K. G.) Second-order optimality conditions in distributed parameter systems. (see **90j:00016**)
- Kotarski, W. Optimal control of a system governed by a parabolic equation with an infinite number of variables. **90a:49024**
- Optimal control of a system governed by a parabolic equation with an infinite number of variables and time delay. **90k:49021**
- Lions, Jacques-Louis Problèmes aux limites non classiques pour équations d'évolution. (English summary) [Nonclassical boundary value problems for evolution equations] **90i:49024**
- Mansimov, K. B. An analogue of the Gabasov-Kirillova condition and its strengthening for a class of systems with distributed parameters. (Russian. English and Azerbaijani summaries) **90c:49025**
- Mardanov, M. Dzh. Necessary conditions for second-order optimality in systems with distributed parameters. (Russian. English and Azerbaijani summaries) **90c:49041**
- Muñoz Rivera, Jaime E. On the control problem of a parabolic equation. (Portuguese summary) **90j:49013**
- Nicolescu, Liviu I. Optimal control for a nonlinear diffusion equation. **90k:49022**
- Nurmawati, A. Sufficient conditions for the optimality of control in systems of parabolic type. (Russian. English summary) **90c:49042**
- 49B21 Free problems in two or more independent variables**
- Acerbi, E. (with Fusco, N.) Regularity for minimizers of nonquadratic functionals: the case $1 < p < 2$. **90f:49019**
- Aubert, G. Quelques remarques sur les notions de 1-rang convexité et de polyconvexité en dimensions 2 et 3. (English summary) [Some remarks on the notions of rank-1 convexity

- Shin, K. G. *see* Kazemi-Dehkordi, M. A., (90j:00016)
- Song, Chang Ho The dual solution method of one minimization problem with restriction on gradient of unknown function. II. (Korean. English summary) 90k:49023
- Sunm, M. I. Optimal control of objects that can be described by quasilinear elliptic equations. 90k:49019
- Temam, R. *see* Abergel, F., 90d:49017
- Terletskii, V. A. *see* Vasil'ev, O. V., 90c:49043
- Tuigunov, K. Necessary conditions for optimality for elliptic systems. (Russian) 90g:49016
- Vasil'ev, O. V. (with Terletskii, V. A.) Optimal control of systems of semilinear hyperbolic equations with additional functional constraints. (Russian) 90c:49043
- Yakimenko, I. L. A problem on the optimal control of an electromagnetic field taking into account hysteresis. (Russian) (see 90d:00017)
- Items with secondary classifications in 49B22
- Adylova, I. V. Optimal control of a system described by a nonlinear equation of heat conduction without a priori estimates. (Russian) 90j:35032
- Aihara, Shin'ichi (with Ishikawa, Masaaki) Optimal control for one-phase Stefan problem with random emission. 90f:93065
- Altan, S. Burhanettin *see* Meriç, R. A., 90c:73014
- Arnăutu, Viorel (with Barbu, Viorel; Capasso, V.) Controlling the spread of a class of epidemics. 90m:92046
- Arshinskii, L. V. Calculation of nonlinear boundary conditions in an algorithm for the shape optimization of a low-flying wing under moderate perturbations. (Russian) 90i:76109
- Arumugam, G. (with Pironneau, O.) On the problems of riblets as a drag reduction device. 90g:76049
- Barbu, Viorel *see* Arnăutu, Viorel; et al., 90m:92046
- Bittner, Leonhard Steuerungen in den Koeffizienten quasilinearer Differentialgleichungen. (English and Russian summaries) [Controls in the coefficients of quasilinear differential equations] (Not in MR)
- Brokate, Martin (with Friedman, Avner) Optimal design for heat conduction problems with hysteresis. 90f:93025
- Bruch, J. C., Jr. *see* Sloss, J. M.; et al., 90f:73020
- Capasso, V. *see* Arnăutu, Viorel; et al., 90m:92046
- Chan, W. L. (with Guo, Bao Zhu) Optimal birth control of population dynamics. 90j:92036
- Destuynder, Philippe Remarques sur le contrôle de la propagation des fissures en régime stationnaire. (English summary) [Remarks on a crack propagation control for stationary loaded structures] 90c:73099
- Dzhennel, M. T. Optimal control of linear loaded parabolic equations. 90g:49005
- Erfurth, Horst (with Handschug, Michael) Eine notwendige Bedingung für ein Vektoroptimum bei speziellen Steuerproblemen. (English and Russian summaries) [A necessary condition for a vector optimum in special control problems] 90a:49022
- Fomenko, A. V. ★ Приближенный синтез оптимального управления распределенными системами. (Russian) [Approximate design of optimal control of distributed systems] 90f:93071
- Fomin, M. N. *see* Talanchuk, P. M.; et al., 90b:93055
- Friedman, Avner *see* Brokate, Martin, 90f:93025
- Guo, Bao Zhu *see* Chan, W. L., 90j:92036
- Handschug, Michael *see* Erfurth, Horst, 90a:49022
- Hoffmann, Karl-Heinz¹ Steuerung freier Ränder. [Control of free boundaries] 90g:49001
- Ishikawa, Masaaki *see* Aihara, Shin'ichi, 90f:93065
- Iskenderov, A. D. (with Yagubov, G. Ya.) Optimal control of nonlinear quantum-mechanical systems. 90k:81074
- Kandola, I. N. An algorithm for the optimization of forms in elliptic systems. (Russian) 90g:73096
- Kerimov, A. K. Sufficient conditions for optimality in an extremal problem with a free boundary. (Russian) 90d:49001
- Kowalewski, Adam Boundary control of distributed parabolic system with boundary condition involving a time-varying lag. 90a:49010
- Ledzewicz-Kowalewska, Urszula On some optimal control problems of differential equations with additional equality constraints. 90g:49014
- Luo, Zheng Hua *see* Sakawa, Yoshiyuki, 90g:73087
- Meriç, R. A. (with Altan, S. Burhanettin) Optimal control of memory dependent nonlocal elastic solids. 90c:73014
- Oden, J. Tinsley *see* White, Luther, 90c:73119
- Pironneau, O. *see* Arumugam, G., 90g:76049
- Popescu, Vasile ★ Control optimal pentru ecuații de evoluție. (Romanian) [Optimal control for evolution equations] 90k:49002
- Sadek, I. S. *see* Sloss, J. M.; et al., 90f:73020
- Sakawa, Yoshiyuki (with Luo, Zheng Hua) Modeling and control of coupled bending and torsional vibrations of flexible beams. 90g:73087
- Sergeev, V. V. *see* Talanchuk, P. M.; et al., 90b:93055
- Serovaiskii, S. Ya. A regularization method in the sense of A. N. Tikhonov in a problem of the optimal control of a nonlinear parabolic system. 90c:49058
- Šestak, Ivan J. Optimal heating of composite stick's arbitrary cross section. (Slovenian summary) 90c:80012
- Sloss, J. M. (with Bruch, J. C., Jr.; Sadek, I. S.) A maximum principle for nonconservative selfadjoint systems. 90f:73020
- Sushch, V. N. Control in nonlocal boundary value problems. 90b:35233
- Talanchuk, P. M. (with Fomin, M. N.; Sergeev, V. V.) Ensuring a given operational temperature regime of measuring transducers. 90b:93055
- Tiba, D. Optimal control for semilinear hyperbolic boundary value problems. 90j:35034
- White, Luther (with Oden, J. Tinsley) Dynamics and control of viscoelastic solids with contact and friction effects. 90c:73119
- Yagubov, G. Ya. *see* Iskenderov, A. D., 90k:81074

49B27 Problems in abstract spaces

- Avakov, E. R. Necessary conditions for a minimum for nonregular problems in Banach

- spaces. The maximum principle for abnormal optimal control problems. (Russian) 90a:49025
- Necessary conditions for an extremum for smooth abnormal problems with constraints of equality and inequality type. 90k:49024
- Basile, N. (with Mininni, M.) An extension of the maximum principle for a class of optimal control problems in infinite-dimensional spaces. (see 90m:93004)
- Chakraborty, Gargi On the existence for a class of optimal control problems. 90g:49017
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- Ledzewicz-Kowalewska, Urszula Tangent directions for a class of nonlinear evolution equations. 90c:49044
- A necessary and sufficient condition for Altman's maximal element problem for constraint sets with many equalities. 90c:49045
- Matveev, S. S. Problems of optimal control with delays of general type and with phase constraints. 90a:49026
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- Nakonechnyi, A. G. (with Rusan, N. A.) Controlling observations in problems of minimax estimation for solutions of variational equations in Hilbert spaces. (Russian) 90k:49025
- Páles, Z. A generalization of the Dubovitskii-Milyutin separation theorem for commutative semigroups. 90c:49031
- Panchenko, A. N. Extremal boundary layers. (Russian) 90g:49018
- Reiland, Thomas W. Generalized differentiability for a class of nondifferentiable operators with applications to nonsmooth optimization. 90j:49014
- Rusan, N. A. *see* Nakonechnyi, A. G., 90k:49025
- Scheffler, H.-P. (with Schrotzek, W.) Necessary optimality for nonsmooth problems with operator constraints. (German and Russian summaries) 90k:49026
- Schrotzek, W. *see* Scheffler, H.-P., 90k:49026
- Serovaiskii, S. Ya. Quasiconjugate systems and necessary conditions for optimality in nonlinear infinite-dimensional systems. (Russian) 90j:49015
- Song, Wen The optimal control problem for initial values of linear evolution equations in a Banach space. (Chinese. English summary) 90i:49026
- Todor, Constantia Optimal control for an infinite-dimensional periodic problem under white noise perturbations. 90m:49015
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- Arutyunyan, V. V. *see* Khachatryan, R. A., 90c:49018
- Banks, H. T. (with Wang, Chunming) Optimal feedback control of infinite-dimensional parabolic evolution systems: approximation techniques. 90f:93075
- Benkert, F. On the number of stable local minima of some functionals. (German and Russian summaries) 90c:90144
- Breckner, Wolfgang W. (with Kolumbán, Iosif) A multiplier rule for constrained optimization problems containing state and control variables. 90a:90164
- Chan, W. L. (with Ho, Lop Fat) Optimal control of the Laplace equation with Cauchy data as control variables. 90g:49015
- Dzhgarkava, D. T. The space of interrupted functions and its applications. (Russian) 90b:46060
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- Frankowska, Halina Estimations a priori pour les inclusions différentielles opérationnelles. (English summary) [A priori estimates for operational differential inclusions] 90c:34023
- Giannesi, F. Semidifferentiable functions and necessary optimality conditions. 90c:90145
- Goebel, Manfred On control problems for a quasilinear second order ordinary differential equation. 90c:49020
- Ho, Lop Fat *see* Chan, W. L., 90g:49015
- Ioffe, Alexandre D. On some recent developments in the theory of second order optimality conditions. 90m:90300
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- Khachatryan, R. A. (with Arutyunyan, V. V.) Cones of tangential directions in problems with operator constraints. (Russian. Armenian summary) 90c:49018
- The intersection of tents in a Hilbert space, and necessary conditions of the extremum for nonsmooth functions. 90a:90213
- Kolumbán, Iosif *see* Breckner, Wolfgang W., 90a:90164
- Korytev, S. G. On the theory of the maximum principle. (Russian) 90f:90154
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- Mel'nik, V. S. Nonconvex optimization problems for quasilinear distributed-parameter systems. 90a:90214
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- Nashed, M. Z. *see* Lee, Sung J., 90c:49006
- Papageorgiou, Nikolaos S. Optimal control problems for a class of nonlinear evolution equations. 90c:93059
- Pytlak, Radosław Discrete maximum principle for problems with Lipschitzian functions. 90c:49049
- Smart, I. Invexity in nonlinear programs and control problems. 90i:90093
- Studniarski, M. A simple derivation of sufficient conditions for a local minimum of a Lipschitzian function. 90k:90142
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Goldberg, Helmut (with Tröltzsch, F.) Second order optimality conditions for a class of control problems governed by nonlinear integral equations with application to parabolic boundary control. 90j:49016

Ibrahim, Essam Y. (with Lovass-Nagy, V.; Schilling, Robert J.) Open-loop optimal control of linear time-invariant systems containing the first derivative of the input. 90d:49019

Isvan, K. V. Optimal control of discrete-continuous systems. (Russian) 90c:49032

Khrustalev, M. M. Global optimality conditions for controlled noninertial systems with delays. (Russian and Polish summaries) 90f:49023

Liu, Jing Yue (with Yang, Zi Hou) On the time-optimal control problem for singular systems. 90c:49047

— (with Yang, Zi Hou) Optimal processes with phase constraints for singular systems. (see 90m:93004)

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Nitka-Szycał, Krystyna Approximate discrete maximum principle for the difference approximation of optimal periodic control problems. 90m:49016

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- Basha, Akiel E. see Mirza, Kais Baker, 90m:49018
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 Colonius, F. Asymptotic behaviour of optimal control systems with low discount rates. 90c:49034
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 Gasanov, Z. M. Approximate time-optimal control of a mass transport process. (Russian) (see 90d:00017)
 Hejmo, Władysław (with Kłoch, Jacenty) On the perturbations in a time-optimal closed-loop system. 90k:49030
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 Malanowski, Kazimierz Sensitivity analysis of convex optimization problems. (see 90h:00012)
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 Sineglasov, V. M. Analysis of the sensitivity of time-optimal systems for the control of objects with distributed parameters. (Russian) (Not in MR)
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- Apkarian, P. (with Champetier, Calixte; Magni, J.-F.) Design of a helicopter output feedback control law using modal and structured-robustness techniques. (Not in MR)
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 Ch'en, Po Hsien (with Dong, Tay Yuh) LQG optimal control system design under plant perturbation and noise uncertainty: a state-space approach. 90c:49037
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 Feng, De Xing (with Zhang, Bing Yu) Optimal control of elliptic equations and domain perturbation. (Chinese. English summary) 90d:93041
 Gómez Fernández, Juan Alfredo (with Rozsa, Roberto) Sensitivity of the optimum value with respect to the delay in a control problem. (Spanish. English summary) 90g:93037
 Hartmann, Irnfried (with Lange, Werner; Poltmann, Rainer) ★ Robust and insensitive design of multivariable feedback systems—multimodel design. 90h:93002
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 Khargonekar, Pramod P. (with Poolla, Kameshwar) Robust control of linear time-invariant plants using switching and nonlinear feedback. (see 90m:93004)
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 Megiddo, Nimrod Pathways to the optimal set in linear programming. 90c:90147
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 Nakonechnyi, A. G. (with Lobok, A. P.) Optimization of the domain of admissible perturbations in systems with distributed parameters when the measurements are inexact. (Russian) 90c:35131
 Pesch, Hans Josef Real-time computation of feedback controls for constrained optimal control problems. I. Neighbouring extremals. 90g:93042
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- Rao, Murali (with Sokolowski, J.) Shape sensitivity analysis of state constrained optimal control problems for distributed parameter systems. 90f:49006
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- Boukas, E. K. (with Haurie, A.; Michel, Philippe) An optimal control problem with a random stopping time. (Not in MR)
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 Liu, Kun Hui An extension of a class of singular discounted cost models. (Chinese. English summary) 90d:49021
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 Sun, Min An evolutionary monotone follower problem in [0, 1]. 90i:49028
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- Aihara, Shin'ichi (with Ishikawa, Masaaki) Optimal control for one-phase Stefan problem with random emission. 90f:93065
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 Baras, John S. (with Elliott, Robert J.; Kohlmann, Michael) The partially observed stochastic minimum principle. 90m:93133
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 Leizarowitz, Arie Control problems with random and progressively known targets. 90g:49022
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49B99 None of the above, but in this section

- Ball, J. M. Singular minimizers and their significance in elasticity. 90f:49025
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 Girko, V. L. (with Mysak, R. T.) A theorem on the extremum of a nonnegative bounded function. (Russian) (Not in MR)
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- Danev, A. V. The form of an axisymmetric body that is optimal with respect to conditions of convective heat transfer and wave drag in a supersonic flow for a laminar mode. (Russian) 90d:76035
 Dochev, Docho T. (with Zhukovskii, V. I.) Sufficient conditions for P1-optimality with uncertainty. (Bulgarian. English and Russian summaries) 90i:90105
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 Pandvè, I. A scheme for the two-level control of a nonlinear discrete-continuous system. (Russian) 90f:93047
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49Cxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming [see also 90C39]

49C05 Free problems and problems involving ordinary differential equations

- (Bernhard, Pierre) see Zeldin, Vera, 90b:49041
 Carlson, Dean Erratum: "Carathéodory-Hamilton-Jacobi theory for nonsmooth problems of Lagrange and problems of optimal control" [J. Math. Anal. Appl. 112 (1985), no. 1, 259-273; MR 87e:49054]. 90m:49020
 Loreti, Paola (with Mazzini, Leonardo) Dynamical programming methods in viability theory. (Italian. English summary) 90c:49052
 Mazzini, Leonardo see Loreti, Paola, 90c:49052

- Mirică, Ștefan Invariant sets and monotone functions with respect to the solutions of ordinary differential equations. 90b:49030
- Zeidan, Vera (with Zezza, Pier Luigi) Conjugate points and optimal control: counterexamples. Comment on: "The theory of the second variation and the linear-quadratic problem" (French) [*Advances in Hamiltonian systems* (Rome, 1981), 109–142, Birkhäuser Boston, Boston, MA, 1983; MR 85c:49046] by P. Bernhard. 90b:49041
- Zezza, Pier Luigi see Zeidan, Vera, 90b:49041

Items with secondary classifications in 49C05

- Berkovitz, Leonard D. Optimal feedback controls. 90b:49013
- Bloch, Anthony M. see McClamroch, N. Harris, 90a:70036
- Carliena, José F. (with López Lacasta, Carlos; Martínez, Eduardo) A geometric characterization of Lagrangian second-order differential equations. 90m:58063
- López Lacasta, Carlos see Carliena, José F.; et al., 90m:58063
- Martínez, Eduardo see Carliena, José F.; et al., 90m:58063
- McClamroch, N. Harris (with Bloch, Anthony M.) Control of constrained Hamiltonian systems and applications to control of constrained robots. 90a:70036
- Nester, James M. Invariant derivation of the Euler-Lagrange equation. 90d:70046
- Pardo, Francisco The Helmholtz conditions in terms of constants of motion in classical mechanics. 90k:70014
- Shinar, J. State-dependent optimality of a singular subarc. 90c:49051
- Stojanović, Srdjan (with Yong, Jiong Min) Optimal switching for partial differential equations. I, II. 90c:49054
- Subbotin, N. N. The maximum principle and the superdifferential of the value function. (Russian summary) 90b:49016
- Yong, Jiong Min see Stojanović, Srdjan, 90c:49054

49C10 Free problems and problems involving partial differential equations

- Cannarsa, P. Regularity properties of solutions to Hamilton-Jacobi equations in infinite dimensions and nonlinear optimal control. 90c:49053
- Da Prato, G. Some results on periodic solutions of Hamilton-Jacobi equations in Hilbert spaces. 90m:49021
- Egorov, Aleksandr Ivanovich (with Kogut, P. I.) Optimal synthesis for an equation of neutral type. (Russian. English summary) 90b:49031
- Ihode, Vasile Hamilton-Jacobi equations and distributed convex control problems. 90i:49032
- Kogut, P. I. see Egorov, Aleksandr Ivanovich, 90b:49031
- Kolokoltsov, V. N. (with Maslov, V. P.) Idempotent analysis as a technique of the theory of control and optimal synthesis. I. 90i:49033
- Lenhart, S. M. Viscosity solutions associated with impulse control problems for piecewise-deterministic processes. 90b:49042
- Maslov, V. P. see Kolokoltsov, V. N., 90i:49033
- Stojanović, Srdjan (with Yong, Jiong Min) Optimal switching for partial differential equations. I, II. 90c:49054
- Yong, Jiong Min Systems governed by ordinary differential equations with continuous, switching and impulse controls. 90d:49026
- see also Stojanović, Srdjan, 90c:49054

Items with secondary classifications in 49C10

- Barbu, Viorel A semigroup approach to Hamilton-Jacobi equation in Hilbert space. (Romanian summary) 90b:47100
- Bardi, Martino A boundary value problem for the minimum-time function. 90i:49034
- Borkar, Vivek S. * Optimal control of diffusion processes. 90h:93115
- "Minimum toll" control of diffusions. 90c:93112
- Clorancescu, Dolina (with Donato, Patrizia) Some remarks on the exact controllability in a neighbourhood of the boundary of a perforated domain. 90m:93012
- Donato, Patrizia see Clorancescu, Dolina, 90m:93012
- Frankowska, Halina Optimal trajectories associated with a solution of the contingent Hamilton-Jacobi equation. 90b:49043
- Hamilton-Jacobi equations: viscosity solutions and generalized gradients. 90f:35018
- Guzzi, Fausto Some results for an infinite horizon control problem governed by a semilinear state equation. 90m:93070
- Lia, E. B. Quantum mechanical control systems. 90c:58059
- Lions, P.-L. Viscosity solutions of fully nonlinear second-order equations and optimal stochastic control in infinite dimensions. I. The case of bounded stochastic evolutions. 90i:35029
- Pisnovskii, A. B. General Markov models with the infinite horizon. (Russian summary) 90h:93123
- Rozeyev, I. (with Subbotin, A. I.) Semicontinuous solutions of Hamilton-Jacobi equations. 90c:90259
- Shreve, Steven E. see Soner, H. Mete, 90h:93124
- Sivaganesan, J. The generalised Hamilton-Jacobi inequality and the stability of equilibria in nonlinear elasticity. 90g:73064
- Soner, H. Mete (with Shreve, Steven E.) Regularity of the value function for a two-dimensional singular stochastic control problem. 90h:93124
- Stockbridge, Richard H. Time-average control of martingale problems: the Hamilton-Jacobi-Bellman equation. 90i:93142
- Subbotin, A. I. A piecewise-linear cost function for a differential game with simple moves. (Russian) 90a:90244
- see also Rozeyev, I., 90c:90259
- Sum, Min An evolutionary monotone follower problem in [0, 1]. 90i:49028
- Tarres, R. Contrôle stochastique ergodique stationnaire non-contraint et conditions asymptotiques de Neumann pour l'équation d'Hamilton-Jacobi-Bellman (dimension 1). (English summary) [Unconstrained stationary ergodic stochastic control and Neumann asymptotic conditions for the Hamilton-Jacobi-Bellman equation (dimension 1)] 90a:93121
- Young, David W. K. A class of differential games with state-dependent closed-loop feedback solutions. 90g:90213

49C15 Problems in abstract spaces or involving functional relations other than differential equations

- Zakrzewski, Danuta Convex duality and Hamiltonian systems in the space of absolutely continuous functions. (Serbo-Croatian summary) 90g:49020

Items with secondary classifications in 49C15

- Chandra, Suresh see Mond, B.; et al., 90a:49019
- Da Prato, G. Some results on periodic solutions of Hamilton-Jacobi equations in Hilbert spaces. 90m:49021
- Husain, I. see Mond, B.; et al., 90a:49019
- Ježek, Jan An algebraic approach to the synthesis of control for linear discrete meromorphic systems. 90d:93020
- Mond, B. (with Chandra, Suresh; Husain, I.) Duality for variational problems with convexity. 90a:49019

49C20 Dynamic programming method

- Bardi, Martino A boundary value problem for the minimum-time function. 90i:49034
- Barron, E. N. (with Ishii, Hitoshi) The Bellman equation for minimizing the maximum cost. 90m:49022
- Cannarsa, P. (with Da Prato, G.) Nonlinear optimal control with infinite horizon for distributed parameter systems and stationary Hamilton-Jacobi equations. 90j:49019
- Capuzzo-Dolcetta, I. (with Falcone, M.) Discrete dynamic programming and viscosity solutions of the Bellman equation. 90i:49035
- (with Lions, P.-L.) Hamilton-Jacobi equations with state constraints. 90g:49021
- Chernov, D. E. see Malyshev, V. V., (Not in MR)
- Da Prato, G. see Cannarsa, P., 90j:49019
- Evans, L. C. (with James, M. R.) The Hamilton-Jacobi-Bellman equation for time-optimal control. 90j:49020
- Falcone, M. see Capuzzo-Dolcetta, I., 90i:49035
- Frankowska, Halina Optimal trajectories associated with a solution of the contingent Hamilton-Jacobi equation. 90b:49043
- Ihode, Vasile Hamilton-Jacobi equations and boundary convex control problems. 90h:49021
- Ishii, Hitoshi see Barron, E. N., 90m:49022
- James, M. R. see Evans, L. C., 90j:49020
- Kirin, N. E. The method of successive damping in the problem of control from incomplete feedback. (Not in MR)
- Leizarowitz, Arie Control problems with random and progressively known targets. 90c:49022
- Lions, P.-L. Viscosity solutions of fully nonlinear second order equations and optimal stochastic control in infinite dimensions. II. Optimal control of Zakai's equation. 90i:49032
- see also Capuzzo-Dolcetta, I., 90g:49021
- Malyshev, V. V. (with Chernov, D. E.) Reduction of computational expenditures in the dynamic programming method. (Not in MR)
- Mirică, Ștefan Inégalités différentielles impliquant l'équation de Bellman-Isaacs et ses généralisations dans la théorie du contrôle optimal. [Differential inequalities implying the Bellman-Isaacs equation and its generalizations in optimal control theory] 90a:49030
- Morozan, T. Dynamic programming for some discrete-time stochastic control problems. (Not in MR)
- Schäfer, Wolfgang Dynamic programming and duality for complex systems. (Russian and Polish summaries) 90c:49055
- Vinter, R. B. (with Wolenski, P.) Hamilton Jacobi theory for optimal control problems with data measurable in time. (see 90m:93004)
- Wolenski, P. see Vinter, R. B., (90m:93004)
- Yakovlev, S. Ya. On the concept of an infinite extremal in stationary problems of dynamic optimization. (Not in MR)
- Zaremba, Leszek S. Optimality principles of dynamic programming in differential games. 90b:49044

Items with secondary classifications in 49C20

- Adiatulina, R. A. (with Taras'ev, A. M.) A differential game of unlimited duration. 90b:90167
- Bensoussan, A. (with Blankenship, G.) Controlled diffusions in a random medium. 90i:93137
- Blankenship, G. see Bensoussan, A., 90i:93137
- Boukas, E. K. (with Haurie, A.; Michel, Philippe) An optimal control problem with a random stopping time. (Not in MR)
- Caines, P. E. (with Wang, Suning) Classical and logic based regulator design and its complexity for partially observed automata. (see 90m:93004)
- Cao, Hai Xing (with Zhang, Yu Fei) Fuzzy optimal control and fuzzy dynamic programming. (Chinese. English summary) 90a:90295
- Chentsov, A. G. see Morina, S. I., 90c:49028
- Chinai, P. I. Application of automatic control theory to the synthesis of modules of flexible manufacturing systems. (Not in MR)
- Fleming, W. H. (with Souganidis, P. E.) On the existence of value functions of two-player, zero-sum stochastic differential games. 90c:93089
- (with Vermes, Domokos) Convex duality approach to the optimal control of diffusions. 90i:49016
- González, Roberto (with Rofman, Edmundo) On stochastic control problems: an algorithm for the value function and the optimal policy—some applications. 90a:93123
- Gerzi, Fausto Some results for an infinite horizon control problem governed by a semilinear state equation. 90m:93070
- Haurie, A. see Boukas, E. K.; et al., (Not in MR)
- Ishii, Hitoshi (with Yamada, Naoki) A remark on a system of inequalities with bilateral obstacles. 90m:35077
- Khrustalev, M. M. Global optimality conditions for controlled noninertial systems with delays. (Russian and Polish summaries) 90f:49023

- Komarov, V. A. Time optimality for differential inclusions. (Russian) 90c:49047
- Lenhart, S. M. (with Liao, Y. C.) Switching control of piecewise-deterministic processes. 90c:49014
- Liao, Y. C. see Lenhart, S. M., 90c:49014
- Lions, P.-L. (with Perthame, B.) An impulsive control problem with state constraint. 90c:93047
- Lojasiewicz, Stanislaw, Jr. (with Szpunar, W.) Optimal feedback. (see 90d:93005)
- Loreti, Paola (with Mazzini, Leonardo) Dynamical programming methods in viability theory. (Italian. English summary) 90c:49052
- Mazzini, Leonardo see Loreti, Paola, 90c:49052
- Menaldi, José-Luis see Sun, Min, 90c:93118
- Michel, Philippe see Boukas, E. K.; et al., (Not in MR)
- Morina, S. I. (with Chentsov, A. G.) Discrete control in problems of mathematical programming that are dual to problems of sequential optimization. 90c:49028
- Nisio, Makiko Stochastic differential games and viscosity solutions of Isaacs equations. 90c:93100
- Perthame, B. see Lions, P.-L., 90c:93047
- Rofman, Edmundo see González, Roberto, 90c:93123
- Rozeyev, I. (with Subbotin, A. I.) Semicontinuous solutions of Hamilton-Jacobi equations. 90c:90259
- Songandis, P. E. see Fleming, W. H., 90c:93089
- Subbotin, A. I. see Rozeyev, I., 90c:90259
- Sun, Min (with Menaldi, José-Luis) Monotone control of a damped oscillator under random perturbations. 90c:93118
- Szpunar, W. see Lojasiewicz, Stanislaw, Jr., (90d:93005)
- Taras'ev, A. M. see Adiatulina, R. A., 90c:90167
- Vermes, Domokos see Fleming, W. H., 90c:90167
- Wang, Suning see Caines, P. E., (90m:93004)
- Yamada, Naoki see Ishii, Hiroshi, 90m:35077
- Yanushkevskii, R. T. Optimal control of linear differential-difference systems of neutral type. 90c:34163
- Yang, Jiong Min Systems governed by ordinary differential equations with continuous, switching and impulse controls. 90c:49026
- Zhang, Yu Fei see Cao, Hai Xing, 90c:90205

49C99 None of the above, but in this section

Items with secondary classifications in 49C99

- Davis, Julian L. ★ Wave propagation in solids and fluids. 90d:73018
- Krishnamayala, M. S. Singular perturbation method applied to the open-loop discrete optimal control problem with two small parameters. 90c:93046
- Sun, Min Monotonicity of Mangasarian's iterative algorithm for generalized linear complementarity problems. 90m:90287

49Dxx Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx.}

Items with secondary classifications in 49Dxx

- Baturin, V. A. see Gurman, V. I.; et al., 90c:93039
- Bobryshev, A. G. see Gurman, V. I.; et al., 90c:93039
- Butin, A. A. see Gurman, V. I.; et al., 90c:93039
- Cherkashin, A. K. see Gurman, V. I.; et al., 90c:93039
- Danilina, E. V. see Gurman, V. I.; et al., 90c:93039
- Dushin, K. B. see Gurman, V. I.; et al., 90c:93039
- Fauré, Pierre ★ Analyse numérique. (French) [Numerical analysis] 90c:65146
- Gurman, V. I. (with Baturin, V. A.; Danilina, E. V.; Bobryshev, A. G.; Butin, A. A.; Dushin, K. B.; Krovkov, V. N.; Kolokol'nikova, G. A.; Konstantinov, G. N.; Mel'nik, V. V.; Moskalenko, A. I.; Nikiforova, L. N.; Sidorenko, G. V.; Ovsyannikov, A. L.; Rasina, I. V.; Cherkashin, A. K.; Khangurova, E. V.) ★ Новые методы улучшения управляемых процессов. (Russian) [New methods for improving control processes] 90c:93039
- Khangurova, E. V. see Gurman, V. I.; et al., 90c:93039
- Kolokol'nikova, G. A. see Gurman, V. I.; et al., 90c:93039
- Konstantinov, G. N. see Gurman, V. I.; et al., 90c:93039
- Krovkov, V. N. see Gurman, V. I.; et al., 90c:93039
- Mel'nik, V. V. see Gurman, V. I.; et al., 90c:93039
- Moskalenko, A. I. see Gurman, V. I.; et al., 90c:93039
- Nikiforova, L. N. see Gurman, V. I.; et al., 90c:93039
- Ovsyannikov, A. L. see Gurman, V. I.; et al., 90c:93039
- Rasina, I. V. see Gurman, V. I.; et al., 90c:93039
- Sidorenko, G. V. see Gurman, V. I.; et al., 90c:93039

49D05 Methods based on necessary conditions

- Burdakovskii, A. N. (with Srochko, V. A.) Application of the variational maximum principle for solving problems of the optimization of controllable systems with distributed parameters. (Russian) 90c:49056
- Popov, V. A.² Convergence of the method of successive approximations in some optimal control problems. (Russian) 90c:49027
- Srochko, V. A. see Burdakovskii, A. N., 90c:49056

Items with secondary classifications in 49D05

- Amoroux, M. (with Benbrik, A.) Contrôle optimal de systèmes à paramètres distribués bilinéaires de type Dirichlet. (English summary) [Optimal control of bilinear distributed-parameter systems of Dirichlet type] 90c:49018
- Benbrik, A. see Amoroux, M., 90c:49018
- Bhakti, P. C. (with Roychoudhuri, Sumitra) Optimization in Banach spaces. 90c:90237
- Gilbert, Jean Charles (with Lemaréchal, Claude) Some numerical experiments with variable-storage quasi-Newton algorithms. 90m:65128

- Lemaréchal, Claude see Gilbert, Jean Charles, 90m:65128
- Norbury, John (with Stuart, A. M.) Corrigendum: "Volterra integral equations and a new Gronwall inequality. I. The linear case" [Proc. Roy. Soc. Edinburgh Sect. A 106 (1987), no. 3-4, 361-373; MR 88m:45004]. 90c:45011
- Plotnikov, V. A. Averaging of equations of controllable motion. (Russian) 90c:34065
- Roychoudhuri, Sumitra see Bhakti, P. C., 90c:90237
- Sakawa, Yoshiyuki see Stachurski, Andrzej, 90c:93025
- Stachurski, Andrzej (with Sakawa, Yoshiyuki) Convergence properties of an algorithm for solving nondifferentiable optimal control problems. 90c:93025
- Stuart, A. M. see Norbury, John, 90c:45011

49D07 Gradient methods

- Khandovlev, M. see Palator, M. B.; et al., 90c:49023
- Noshchenko, O. E. (with Tukalevskaia, N. I.) An algorithm for finding optimal parameters in a variational-iterative method. (Russian) (see 90j:00007)
- Palator, M. B. (with Seisov, Yu. B.; Khandovlev, M.) A method of successive approximations for the search for optimal programmed motions. (Russian. English summary) 90c:49023
- Seisov, Yu. B. see Palator, M. B.; et al., 90c:49023
- Solov'ev, I. G. Qualitative analysis of the convergence of a discrete adaptation algorithm. (Russian) (Not in MR)
- Tukalevskaia, N. I. see Noshchenko, O. E., (90j:00007)
- Uryaev, S. P. A differentiation formula for integrals over sets given by inclusion. 90m:49023

Items with secondary classifications in 49D07

- Amaya, J. Convergence of curvilinear search algorithms to second order points. 90c:65135
- Antipin, A. S. Continuous and iterative processes with projection operators and projection-type operators. (Russian) 90c:34072
- Chaplais, F. see Cohen, Guy, 90c:49007
- Cohen, Guy (with Chaplais, F.) Nested monotony for variational inequalities over product of spaces and convergence of iterative algorithms. 90c:49007
- Auxiliary problem principle extended to variational inequalities. 90c:49008
- Godara, L. C. (with Gray, D. A.) A structured gradient algorithm for adaptive beamforming. (Not in MR)
- Gray, D. A. see Godara, L. C., (Not in MR)
- Helton, J. W. (with Schwartz, D. F.) Polynomially contractible sets. 90c:30016
- Kamenetskii, V. A. The gradient method for constructing Lyapunov functions for nonlinear dynamical systems. (Russian) 90c:93075
- King, J. T. A minimal error conjugate gradient method for ill-posed problems. 90d:65109
- Kondrat'ev, V. V. (with Minchuk, F. F.) Automatic regulation of the step in iterative minimization processes. (Russian) 90c:90136
- Liu, Dong C. (with Nocedal, Jorge) Algorithms with conic termination for nonlinear optimization. 90c:65124
- Minchuk, F. F. see Kondrat'ev, V. V., 90c:90136
- Moré, Jorge J. Gradient projection techniques for large-scale optimization problems. (see 90m:93004)
- Nazim, A. V. Information inequalities in a problem of gradient stochastic optimization and optimal realizable algorithms. 90c:90128
- Nocedal, Jorge see Liu, Dong C., 90c:65124
- Outrata, J. V. On the usage of bundle methods in optimal control of nondifferentiable systems. 90c:49015
- Schwartz, D. F. see Helton, J. W., 90c:30016
- Segal, Mordechai (with Weinstein, Ehud) A new method for evaluating the log-likelihood gradient, the Hessian, and the Fisher information matrix for linear dynamic systems. 90c:93118
- Singh, Manak (with Tawakley, V. B.) Application of steepest descent method and conjugate gradient method to defence problems. (Not in MR)
- Sayman, J. A. A convergent dynamic method for large minimization problems. 90c:90133
- Solodova, S. V. A combined penalty and reduced gradient method in optimal control problems. 90c:49049
- Tawakley, V. B. see Singh, Manak, (Not in MR)
- Weinstein, Ehud see Segal, Mordechai, 90c:93118
- Wright, Stephen Joseph Convergence of SQP-like methods for constrained optimization. 90c:90127

49D10 Methods of steepest descent type

- Kirin, N. E. (with Sadovin, N. S.) An interpolation variant of the successive damping method. (Russian) (see 90c:90019)
- Neittaanmäki, Pekka (with Tiba, D.) A steepest descent method for the approximation of the boundary control in two-phase Stefan problem. 90c:49045
- Sadovin, N. S. see Kirin, N. E., (90c:90019)
- Singh, Manak (with Tawakley, V. B.) Application of steepest descent method and conjugate gradient method to defence problems. (Not in MR)
- Tawakley, V. B. see Singh, Manak, (Not in MR)
- Tiba, D. see Neittaanmäki, Pekka, 90c:49045

Items with secondary classifications in 49D10

- Arumugam, G. (with Pironneau, O.) On the problems of riblets as a drag reduction device. 90c:76049
- Asai, Hideki Equivalent property between network analysis using virtual capacitors and steepest descent method. (Not in MR)
- Brockett, Roger W. Least squares matching problems. 90c:90116
- Everitt, R. S. ★ Introduction to optimization methods and their application in statistics. 90d:62001
- Ghosh, A. see Patel, R. B., 90c:90156
- Grantham, Walter J. see Lee, Byoungsoo, 90c:93047
- Imai, Satoshi see Tokuda, Keiichi; et al., (Not in MR)

- Kohayashi, Takao *see* Tokuda, Keiichi; et al. (Not in MR)
 Lee, Byoungsoo (with Grantham, Walter J.) Aerostated orbital maneuvering using
 Lyapunov optimal feedback control. 90b:93047
 Papamarkos, N. (with Vachtsevanos, G.) A new algorithm for the solution of the linear
 minimax approximation problem. 90a:90118
 Patel, R. B. (with Ghosh, A.) Differential equations approach in constraint minimization.
 90b:90156
 Pironneau, O. *see* Arumugam, G., 90b:76049
 Schroeder, James Edwin (with Yariagadda, R.) Linear predictive spectral estimation via the
 L_1 norm. (French and German summaries) 90c:94005
 Tokuda, Keiichi (with Kobayashi, Takao; Imai, Satoshi) Cepstral analysis with nonuniform
 spectral weighting for spectral envelope extraction. (Not in MR)
 Vachtsevanos, G. *see* Papamarkos, N., 90a:90118
 Yariagadda, R. *see* Schroeder, James Edwin, 90c:94005

49D15 Methods of Newton-Raphson, Galerkin and Ritz types

- Alt, Walter (with Mackenroth, Uwe) Convergence of finite element approximations to state
 constrained convex parabolic boundary control problems. 90c:49057
 Chang, Sung Kag Galerkin approximations of Riccati operators arising in the boundary
 controls for hyperbolic systems. 90b:49046
 Fujii, Nobuo *see* Goto, Yoshito, 90b:49021
 Goto, Yoshito (with Fujii, Nobuo) A Newton's method in a domain optimization problem.
 90b:49021
 Ito, Kazufumi Finite-dimensional compensators for infinite-dimensional systems via
 Galerkin-type approximation. (see 90m:93002)
 Kiselev, Yu. N. (with Orlov, M. V.) A search scheme for optimal solution of a linear time-
 optimality problem. (Not in MR)
 Mackenroth, Uwe *see* Alt, Walter, 90c:49057
 Orlov, M. V. *see* Kiselev, Yu. N., (Not in MR)
 Probst, Georg Piecewise linear approximation for hereditary control problems. 90m:49024
 Serovatski, S. Ya. A regularization method in the sense of A. N. Tikhonov in a problem of
 the optimal control of a nonlinear parabolic system. 90c:49058
 Werschulz, Arthur G. Optimal algorithms for a problem of optimal control. 90b:49036

Items with secondary classifications in 49D15

- Arumugam, G. *see* Pironneau, O., 90b:76060
 Avgirinos, Evgenios P. (with Papageorgiou, Nikolaos S.) Viable solutions for evolution
 inclusions. (Serbo-Croatian summary) 90g:34013
 Bernstein, Dennis S. (with Rosen, I. Gary) Finite-dimensional approximation for optimal
 fixed-order compensation of distributed parameter systems. 90m:93069
 Burns, John A. (with Fabiano, R. H.) Feedback control of a hyperbolic partial-differential
 equation with viscoelastic damping. 90d:93040
 Chen, Wen De (with Han, Jing Qing) A new method for solving Riccati equations and
 Liapunov equations. 90g:93023
 Dai, He Ping *see* Qu, Shou De; et al., 90i:65203
 Dean, Edward J. (with Glowinski, R.; Li, Chin Hsien) Supercomputer solutions of
 partial differential equation problems in computational fluid dynamics and in control.
 90b:76003
 Deftise, M. (with De Mol, C.) A note on stopping rules for iterative regularization methods
 and filtered SVD. 90b:65091
 De Mol, C. *see* Deftise, M., 90b:65091
 Dennis, J. E., Jr. (with Sheng, Song Bai; Vu Anh Phuong) A memoryless augmented Gauss-
 Newton method for nonlinear least-squares problems. 90c:65088
 Ding, Yan Heng (with Liu, Jia Quan) Periodic solutions of asymptotically linear Hamilton-
 ian systems. (Chinese. English summary) 90f:58056
 Dixon, Laurence C. W. (with Price, R. C.) Truncated Newton method for sparse uncon-
 strained optimization using automatic differentiation. 90c:90196
 Everitt, B. S. ★ Introduction to optimization methods and their application in statistics.
 90d:62001
 Fabiano, R. H. *see* Burns, John A., 90d:93040
 Fontecilla, Rodrigo Subspace invariance of Broyden's θ -class and its application to
 nonlinear constrained optimization. 90f:65094
 Gavriljuk, I. P. The penalty method for variational inequalities in the case of a cone of
 constraints. 90c:49007
 Gawlowicz, Piotr *see* Korbicz, József; et al., 90b:92062
 Gilbert, Jean Charles (with Lemaréchal, Claude) Some numerical experiments with
 variable-storage quasi-Newton algorithms. 90m:65128
 Glowinski, R. *see* Dean, Edward J.; et al., 90b:76003
 Han, Jing Qing *see* Chen, Wen De, 90g:93023
 Hanks, Michael (with März, Roswitha; Neubauer, A.) On the regularization of linear
 differential-algebraic equations. 90c:34003
 Haslinger, J. (with Neittaanmäki, Pekka) ★ Finite element approximation for optimal
 shape design. 90c:49010
 Hsiao, George C. On the stability of boundary element methods for integral equations of the
 first kind. 90a:65273
 Kelley, C. T. (with Sachs, E. W.) A pointwise quasi-Newton method for unconstrained
 optimal control problems. 90i:65119
 Korbicz, József (with Farmate, I. L.; Gawlowicz, Piotr) Simulation of urban air pollutant
 processes and monitoring stations location problem. 90b:92062
 Kunisch, Karl A review of some recent results on the output least squares formulation of
 parameter estimation problems. 90c:93030
 Lemaréchal, Claude *see* Gilbert, Jean Charles, 90m:65128
 Li, Chin Hsien *see* Dean, Edward J.; et al., 90b:76003
 Li, Song Shi *see* Qu, Shou De; et al., 90i:65203
 Liu, Jia Quan *see* Ding, Yan Heng, 90f:58056
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 Strizhak, V. A. Asymptotic regularization of integral operators of the first kind with power
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- Mordukhovich, B. Sh. Optimization and approximation of differential inclusions. 90d:49015
- Nitka-Styczeń, Krystyna Approximate discrete maximum principle for the difference approximation of optimal periodic control problems. 90m:49016
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- Talanchuk, P. M. (with Fomin, M. N.; Sergeev, V. V.) Ensuring a given operational temperature regime of measuring transducers. 90f:93055
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- (with Wang, Hong Cai) Kalman decomposition of general nonlinear systems. (Chinese. English summary) 90f:49029
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- Cohen, Guy (with Miara, B.) Optimization with an auxiliary constraint and decomposition. (Not in MR)
- Dai, Li Yi Strong decoupling in singular systems. 90f:49022
- Dameshek, L. Yu. (with Konstantinov, G. N.; Chemezova, T. V.) A decomposition scheme for normalizing the actions in multistage processes. (Russian) (see 90f:90017)
- Dó Cógáin, Khamh On the composition of linear dynamical systems. 90m:49026
- Ilyutovich, A. E. Decomposition of the choice of possible direction in the problem of discrete-time optimal control. (Not in MR)
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- Litvinchev, I. S. Decomposition in dynamic problems with mixed constraints. (Russian) (Not in MR)
- Iterative decomposition in dynamic problems with cross-constraints. 90b:49023
- Lü, Hong Fan A decoupling problem in the canonical decomposition of linear systems. (Chinese. English summary) 90c:49062
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- Porter, W. A. see Aravena, Jorge L., (90f:93007)
- Rhodes, Ian B. A parallel decomposition for Kalman filters. (Not in MR)
- Shumskii, A. E. Decomposition of nonlinear dynamical systems. (Russian) 90f:49023
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- (with Elrod, M.; Rach, R.) A new approach to boundary value equations and application to a generalization of Airy's equation. 90d:34043
- Ball, Joseph A. see Luse, D. William, (90f:93007)
- Bromberg, Matt (with Chang, Tsu Shuan; Luh, Peter B.) Quadratic incentive coordination for nonconvex optimal control problems. I. Theory. 90d:93057
- Chang, Tsu Shuan (with Jin, Xiao-Xuan; Luh, Peter B.; Miao, Xi-Yi) Large-scale convex optimal control problems: time decomposition, incentive coordination, and parallel algorithm. 90f:93069
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- Chaplais, F. see Cohen, Guy, 90f:49007
- Chen, Ye-Hwa Structural decomposition and new algebraic method for large-scale systems. (Not in MR)
- Cohen, Guy (with Chaplais, F.) Nested monotony for variational inequalities over product of spaces and convergence of iterative algorithms. 90c:49007
- Auxiliary problem principle extended to variational inequalities. 90c:49008
- Descusse, J. Nouveaux développements sur l'essentialité. Application au découpage par blocs. (English summary) [New developments in the study of essentiality. Application to block decoupling] 90f:93032
- Elrod, M. see Adomian, George A.; et al., 90d:34043
- Glumineau, A. (with Moog, C. H.) Essential orders and the nonlinear decoupling problem. (Not in MR)
- Han, Zheng Zhi Consistency of decentralized disturbance decoupling. (Chinese. English summary) 90c:93052
- Helmke, U. (with Hinrichsen, D.; Manthey, W.) A cell decomposition of the space of real Hankel matrices of rank $\leq n$ and some applications. 90m:93039
- Hinrichsen, D. see Helmke, U.; et al., 90m:93039

- Ibramkhalilov, I. Sh. see Mamedov, M. D., 90g:93004
- Ilyutovich, A. E. Choice of a version of descent in an optimal control problem with mixed constraints. A decomposition approach. 90b:49019
- Inaba, Hiroshi (with Otsuka, Naohisa) Triangular decoupling and stabilization for linear control systems in Hilbert spaces. 90f:93069
- Ivanov, P. R. (with Ivanov, N. M.) Group-theoretic methods for the decomposition of nonlinear problems for estimating the state vector of dynamical systems. 90f:93040
- Ivanov, N. M. see Ivanov, P. R., 90f:93040
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- Luh, Peter B. see Bromberg, Matt; et al., 90d:93057 and Chang, Tsu Shuan; et al., 90f:93069
- Luse, D. William (with Ball, Joseph A.) Frequency-scale decomposition of H^∞ -disk problems. (see 90f:93007)
- Mamedov, M. D. ★ Математическая теория иерархических структур. (Russian) [Mathematical theory of hierarchical structures] 90g:93004
- Manthey, W. see Helmke, U.; et al., 90m:93039
- Mertzos, B. G. (with Venetsanopoulos, A. N.) Block decomposition structures for the fast modular implementation of two-dimensional digital filters. 90g:93021
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- Otsuka, Naohisa see Inaba, Hiroshi, 90f:93069
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- Pyatitskii, E. S. The design of hierarchical systems for the control of mechanical and electromechanical objects based on the decomposition principle. II. 90d:70065
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- Respondek, W. (with Nijmeijer, Henk) On local right-invertibility of nonlinear control systems. 90c:93055
- van der Schaft, A. J. Hamiltonian control systems: decomposition and clamped dynamics. 90f:93037
- Singh, Sahjendra N. (with Iyer, Ashok) Nonlinear decoupling sliding mode control and attitude control of spacecraft. 90f:93054
- Decoupled ultimate boundedness control of systems and large aircraft maneuver. 90f:93056
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- Tani, Harry Entropy of a system and of a collection. (Russian. English and Estonian summaries) 90c:68035
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- Wang, Ding Wei Real decoupling technique for reducing the order of large scale system models. (Chinese summary) (Not in MR)
- Wang, Yong Chao A new method for decoupling arbitrary paths and its application. (Chinese. English summary) (Not in MR)
- Xu, Xiao Shu Analysis and synthesis of multivalued cascade sequential machines. (Chinese. English summary) 90c:94057

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- Biot, Joël Lagrange multipliers in variational problems in mean. 90a:49033
- Dunn, J. C. Formal augmented Newtonian projection methods for continuous-time optimal control problems. (see 90m:93004)
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- Breckner, Wolfgang W. (with Kolumbán, Istif) A multiplier rule for constrained optimization problems containing state and control variables. 90a:90164
- Florin, M. A. Fixed-interval smoother in the identification of time-varying dynamics. (Not in MR)
- Giannessi, F. Semidifferentiable functions and necessary optimality conditions. 90c:90145
- Goldberg, Helmut (with Tröltzsch, F.) Second order optimality conditions for a class of control problems governed by nonlinear integral equations with application to parabolic boundary control. 90f:49016
- Grigor'ev, Yu. A. An extremal convolution problem. 90g:90190
- Khorasani, K. see Azimi-Sadjadi, M. R., 90m:93123
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- Kostoglotov, A. I. Interference of stress waves under optimal excitation. 90b:73026
- Lasiecka, I. (with Triggiani, R.) Exact controllability of the Euler-Bernoulli equation with L_2 -control only in the Dirichlet boundary condition. (Italian summary) 90f:93009
- Lohmeyer, P. Optimal resource control in continuous time without Hamiltonian functions. 90c:90029
- Luckhaus, S. (with Modica, Luciano) The Gibbs-Thompson relation within the gradient theory of phase transitions. 90c:49041
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- Phạm Huy Diên see Phạm Huy Diên, 90c:90166
- Phạm Huy Diên (with Phạm Huy Diên) Further properties of the regularity of inclusion systems. 90b:49016
- Radioph, Helmut Näherungslösungen für eine Klasse von Steuerproblemen mit gemischten Restriktionen. (English summary) [Approximate solutions for a class of control problems with mixed restrictions] 90c:49065
- Sarbasova, A. K. (with Yatsenko, Yu. P.) Necessary conditions for optimality in integral dynamic models with a controllable previous history. (Russian) 90a:49012
- Scheffler, H.-P. (with Schirotzek, W.) Necessary optimality for nonsmooth problems with operator constraints. (German and Russian summaries) 90c:49026
- Schirotzek, W. see Scheffler, H.-P., 90c:49026
- Solov'ev, V. N. On the use of symmetry in smooth extremal problems. (Russian) 90b:90125
- Teboulle, Marc A simple duality proof for quadratically constrained entropy functionals and extension to convex constraints. 90f:49009
- Triggiani, R. see Lasiecka, I., 90f:93009

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 Zalmai, G. J. A transposition theorem with applications to constrained optimal control problems. 90a:49011
 Zinzade, S. A. Bemerkungen zu einem Sonderfall glatt-konvexer Optimierungsaufgaben. (English summary) [Comments on a special case of smooth-convex optimization problems] 90a:90178

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 Danilin, Yu. M. Quadratic penalty methods on the basis of linear approximation. (Russian) 90j:49024
 Hasan, Mohammed (with Lundberg, Bruce N.; Poore, Aubrey B.; Yang, Bing) Numerical optimal control via smooth penalty functions. (see 90k:93005)
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 Poore, Aubrey B. see Hasan, Mohammed; et al., (90k:93005)
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 Xing, An-Qing (with Chen, Zu Hao; Wang, Chung-Lie; Yao, Y. Y.) Exact penalty function approach to constrained optimal control problems. 90a:49024
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 Di Pillo, G. (with Facchinei, F.) Exact penalty functions for nondifferentiable programming problems. 90m:90243
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 Heymann, M. (with Rajan, N.; Ardema, M.) Optimal strategies in event-constrained differential games. (see 90a:90250)
 Höl, C. On a class of penalty functional methods for solution of convex optimization problems. 90a:90212
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 Khromova, L. N. Regularization of a sixth-order minimization method with imprecise initial data. 90b:65131
 Lin, Jie (with Kambhampati, C.; Roberts, P. D.) A new two-model approach for optimizing control of large-scale steady-state systems. 90c:93005
 Lukasiewicz, G. Inequalities related to stationary flows of granulated media. 90b:49013
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 Menaldi, José-Luis (with Takar, M. I.) Optimal correction problem of a multidimensional stochastic system. 90d:49012
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 Novikova, N. M. A method for searching for a stochastic saddle point. (Russian) 90c:90202
 Palatov, M. B. (with Seisov, Yu. B.; Khandovlev, M.) A method of successive approximations for the search for optimal programmed motions. (Russian. English summary) 90g:49023
 Panis, V. M. Asymptotic properties of the finite penalty method with controlling parameters. (Russian) 90a:90174
 Rajan, N. Two-on-one combat games. 90b:90178
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 Roberts, P. D. see Lin, Jie; et al., 90c:93005
 Scheiber, Ernest On the convergence of the Ritz method used simultaneously with the penalty function method and the linearization method. 90d:65128
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 Streihl, G. L_∞ -error estimate for the numerical treatment of the obstacle problem by the penalty method. 90f:65096
 Sun, Mian An evolutionary monotone follower problem in [0, 1]. 90i:49028
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 Tibb, D. Optimal control for semilinear hyperbolic boundary value problems. 90j:35034
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 Xing, An-Qing (with Wang, Chung-Lie) Applications of the exterior penalty method in constrained optimal control problems. 90j:90132
 Zhang, Jian Zhong Superlinear convergence of a trust region-type successive linear programming method. 90j:90157

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- Bitsoris, Georges see Vassilaki, Marina, (Not in MR)
 Gao, Sheng Quan A linear programming method for identifying linear SISO systems. (Chinese. English summary) 90c:49063

- Vassilaki, Marina (with Bitsoris, Georges) Constrained regulation of linear continuous-time dynamical systems. (Not in MR)

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- Hennet, Jean-Claude Une extension du lemme de Farkas et son application au problème de régulation linéaire sous contraintes. (English summary) [An extension of Farkas' lemma and its application to the linear constrained regulation problem] 90j:90083
 Mendlovitz, Mark A. A simple solution to the l^1 optimization problem. 90b:49004
 Nguyễn Châu Support method for solving a linear minimax problem of optimal control. 90j:49018
 Shorikov, A. F. see Tyulyukin, V. A., 90j:49030
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- Boichuk, L. M. see Ponomarenko, V. S., 90c:49064
 Galperin, Efim A. (with Zheng, Quan¹) Variation-free iterative method for global optimal control. 90j:49025
 Goh, C. J. see Teo, Kok-Lay, 90d:49022
 Ponomarenko, V. S. (with Boichuk, L. M.) Application of the principles of model self-organization for solving optimization problems and synthesizing optimal control systems (a survey). 90c:49064
 Teo, Kok-Lay (with Goh, C. J.) A computational method for combined optimal parameter selection and optimal control problems with general constraints. 90d:49022
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- Bartholomew-Biggs, M. C. (with Dixon, Laurence C. W.; Hersom, S. E.; Maany, Z. A.) The solution of some difficult problems in low-thrust interplanetary trajectory optimization. 90a:93071
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 Hu, Xiao Dong Nonsmooth programming. (Chinese) 90m:90251
 Jennings, L. S. see Teo, Kok-Lay, 90m:93053
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 Maany, Z. A. see Bartholomew-Biggs, M. C.; et al., 90a:93071
 Schramm, Helga Eine Kombination von Bundle- und Trust-Region-Verfahren zur Lösung nichtdifferenzierbarer Optimierungsprobleme. [A combination of bundle methods and trust region methods for the solution of nondifferentiable optimization problems] 90g:90152
 Stuckman, Bruce E. A global search method for optimizing nonlinear systems. 90c:90116
 Talman, A. J. J. (with Yamamoto, Yoshitsugu) A simplicial algorithm for stationary point problems on polytopes. 90m:90260
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49D39 Semi-infinite programming

- Rudolph, Helmut Näherungslösungen für eine Klasse von Steuerproblemen mit gemischten Restriktionen. (English summary) [Approximate solutions for a class of control problems with mixed restrictions] 90c:49065

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- Beil, Bradley M. Global convergence of a semi-infinite optimization method. 90j:90114
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 Fischer, Thomas ★ Stetige Selektionen bei semi-unfiniter Optimierung. (German) [Continuous selections in semi-infinite optimization] 90b:90150
 Helbig, Siegfried Relationships between vector optimization and parametric semi-infinite optimization in certain ordered groups. 90m:90272
 Panier, Eliane R. (with Tits, André L.) A globally convergent algorithm with adaptively refined discretization for semi-infinite optimization problems arising in engineering design. 90f:90085
 Philpott, A. B. see Ferris, M. C., 90c:90077
 Polak, Elijah (with Wu, T. L.) On the design of stabilizing compensators via semi-infinite optimization. 90a:93082
 Rupp, T. Kuhn-Tucker curves for one-parametric semi-infinite programming. 90c:65090
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- Huang, Lin (with Li, Zhong) Fundamental theorem for optimal output feedback problem with quadratic performance criterion. (Not in MR)
- (Ibramkhalilov, I. Sh.) see Mamedov, M. D., 90g:93004
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Rassias, Themistocles M. Plateau's problem and its importance to physics. (Greek summary) (Not in MR)

Salamon, Peter (with Bernholc, J.; Berry, R. Stephen; Carrera-Patiño, Martin E.; Andresen, Bjarne) The wetted solid—a generalization of the Plateau problem and its implications for sintered materials. 90m:49032

Shibata, Keiichi Orthogonal stance of a minimal surface against its bounding surfaces. 90i:49039

Tamanai, Italo Variational problems of least area type with constraints. 90j:49033

Wei, S. Walter Plateau's problem in symmetric spaces. 90f:49037

White, Brian Cabell New applications of mapping degrees to minimal surface theory. 90c:49051

Items with secondary classifications in 49F10

Amur, Krishna Variational properties of total mean curvatures of a hypersurface. 90c:53017

Baumbach, Eckhard (with Hoffmann, Bernd-D.) Seifenhautflächen in verschiedenen regelmäßigen Körpern. I. Ein Problem der Mathematik und der Chemie. [Soap bubble surfaces in various regular bodies. I. A problem of mathematics and chemistry] 90b:49001a

— (with Hoffmann, Bernd-D.) Seifenhautflächen in verschiedenen regelmäßigen Körpern. II. [Soap bubble surfaces in various regular bodies. II.] 90b:49001b

Brézis, Haïm S^2 -valued maps with singularities. 90f:58029

Caffarelli, Luis A. Free boundary problems. A survey. 90f:35208

Concus, Paul (with Finn, Robert) Instability of certain capillary surfaces. 90d:53009

Coppin, Charles Arthur (with Greenspan, Donald) A contribution to the particle modeling of soap films. 90a:65013

Đào Trung Thi (with Fomenko, A. T.) ★ Минимальные поверхности и проблема Плато. (Russian) [Minimal surfaces and Plateau's problem] 90a:58036

Finn, Robert On the maximum principle. 90c:58022

— The inclination of an H -graph. 90b:35084

— *see also* Concus, Paul, 90d:53009

Fischer, Werner (with Koch, Elke) On 3-periodic minimal surfaces. 90c:53018

— (with Koch, Elke) New surface patches for minimal balance surfaces. I. Branched catenoids. 90d:53011

— *see also* Koch, Elke, 90d:53012

Fomenko, A. T. *see* Đào Trung Thi, 90a:58036 and Giusti, Enrico, 90g:58024

Giusti, Enrico ★ Минимальные поверхности и функции ограниченной вариации. (Russian) [Minimal surfaces and functions of bounded variation] 90g:58024

Gluck, Herman (with Morgan, Frank; Ziller, W.) Calibrated geometries in Grassmann manifolds. 90b:53077

Greenspan, Donald *see* Coppin, Charles Arthur, 90a:65013

Galliver, Robert Minimal surfaces of finite index in manifolds of positive scalar curvature. 90c:53021

Hildebrandt, Stefan The calculus of variations today. 90k:01018

Hoffmann, David A. (with Meeks, William H., III) A variational approach to the existence of complete embedded minimal surfaces. 90c:53023

— (with Meeks, William H., III) The asymptotic behavior of properly embedded minimal surfaces of finite topology. 90f:53010

Hoffmann, Bernd-D. *see* Baumbach, Eckhard, 90b:49001a and 90b:49001b

- Huang, Chen Fang** Comparison principles and Liouville theorems for prescribed mean curvature equations in unbounded domains. 90m:35019
- Hvidsten, Michael D.** Volume and energy stability for isometric minimal immersions. 90c:53155
- Ji, Min** A priori estimate for Douglas problem in Riemannian manifolds. 90m:58035
- Jiang, Lei** Minimal hypersurfaces of revolution in Euclidean spaces. (Chinese) 90f:53011
- Just, J.** Das Existenzproblem für Minimalflächen. [The existence problem for minimal surfaces] 90c:58019
- Karcher, Hermann** The triply periodic minimal surfaces of Alan Schoen and their constant mean curvature companions. 90g:53010
- Koch, Elke** (with Fischer, Werner) New surface patches for minimal balance surfaces. II. Multiple catenoids. 90d:53012
- see also Fischer, Werner, 90c:53018 and 90d:53011
- Langvin, Rémi** (with Rosenberg, Harold) A maximum principle at infinity for minimal surfaces and applications. 90c:53025
- Laurence, Peter** On the convexity of geometric functionals of level for solutions of certain elliptic partial differential equations. 90b:35094
- Lia, Jun Min** (with Xia, Chang Yu) Geometrical and topological obstructions of minimal hypersurfaces in $S^3(1)$. 90b:53072
- Meeks, William H., III** (with Rosenberg, Harold) The global theory of doubly periodic minimal surfaces. 90m:53017
- see also Hoffman, David A., 90c:53023 and 90f:53010
- Moré, Jean-Michel** (with Solimini, Sergio) Segmentation d'images par méthode variationnelle: une preuve constructive d'existence. (English summary) [Image segmentation by a variational method: a constructive existence proof] 90c:58020
- Morgan, Frank** see Gluck, Herman; et al., 90h:53077
- Pacard, Frank** Convergence of surfaces of prescribed mean curvature. 90m:58036
- Pitts, Jon T.** (with Rubinstein, J. Hyam) Equivariant minmax and minimal surfaces in geometric three-manifolds. 90a:53014
- (Plushnikov, A. I.)** see Glusti, Enrico, 90g:58024
- Rosenberg, Harold** see Langvin, Rémi, 90c:53025 and Meeks, William H., III, 90m:53017
- Rubinstein, J. Hyam** see Pitts, Jon T., 90a:53014
- Saurvig, Friedrich** On the total number of branch points of quasi-minimal surfaces bounded by a polygon. 90c:53015
- (Shenitzer, A.)** see Hildebrandt, Stefan, 90k:01018
- Solimini, Sergio** see Moré, Jean-Michel, 90c:58020
- Struwe, Michael** ★ Plateau's problem and the calculus of variations. 90h:58016
- Applications of variational methods to problems in the geometry of surfaces. 90d:58030
- Toni, Friedrich** (with Tromba, Anthony) Existence theorems for minimal surfaces of nonzero genus spanning a contour. 90a:58032
- Tromba, Anthony** see Toni, Friedrich, 90a:58032
- Xia, Chang Yu** see Lia, Jun Min, 90b:53072
- Ziller, W.** see Gluck, Herman; et al., 90h:53077

49F15 Morse theory in Hilbert and other spaces [see also 57R27, 58Exx]

Items with secondary classifications in 49F15

- Bahri, Abbas** (with Lions, P.-L.) Morse index of some min-max critical points. I. Application to multiplicity results. 90c:58035
- D'Onofrio, Bianca Maria** (with Ekeland, Ivar) Hamiltonian systems with elliptic periodic orbits. 90m:58066
- Ekeland, Ivar** see D'Onofrio, Bianca Maria, 90m:58066
- Lions, P.-L.** see Bahri, Abbas, 90c:58035
- Mawhin, J.** (with Willem, M.) ★ Critical point theory and Hamiltonian systems. 90c:58016
- Solimini, Sergio** Morse index estimates in min-max theorems. 90f:58028
- Struwe, Michael** Applications of variational methods to problems in the geometry of surfaces. 90d:58030
- Tanaka, Kazunaga** Morse indices at critical points related to the symmetric mountain pass theorem and applications. 90f:58019
- Willem, M.** see Mawhin, J., 90c:58016

49F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [see also 28A75, 32C30, 58A25, 58C35]

- Almgren, Frederick J., Jr.** (with Lieb, Elliott H.) Symmetric decreasing rearrangement is sometimes continuous. 90c:49038
- Ciaochi, Andrea** A sharp form of Poincaré type inequalities on balls and spheres. (Italian summary) 90k:49040
- Hardt, R.** (with Kinderlehrer, D.) Mathematical questions of liquid crystal theory. 90c:49033
- Kinderlehrer, D.** see Hardt, R., 90c:49033
- Lieb, Elliott H.** see Almgren, Frederick J., Jr., 90c:49038
- Lia, Fang-Hua** Asymptotic behavior of area-minimizing currents in hyperbolic space. 90c:49080
- Mumford, David** (with Shah, Jayant) Optimal approximations by piecewise smooth functions and associated variational problems. 90g:49033
- Shah, Jayant** see Mumford, David, 90g:49033
- Solomon, Bruce** (with White, Brian Cabell) A strong maximum principle for varifolds that are stationary with respect to even parametric elliptic functionals. 90c:49052
- White, Brian Cabell** A new proof of the compactness theorem for integral currents. 90c:49052
- see also Solomon, Bruce, 90c:49052
- Zworski, Maciej** Decomposition of normal currents. 90a:49043
- Items with secondary classifications in 49F20
- Congedo, Giuseppe** (with Tamanini, Italo) Notes on the regularity of minimizers of least

- area functionals. (Italian. English summary) 90c:49003
- Đào Trọng Thi** Topological methods in the calculus of variations. 90g:58025
- Ecker, Klaus** Area-minimizing integral currents with movable boundary parts of prescribed mass. (French summary) 90f:49036
- Giaquinta, Mariano** (with Modica, Giuseppe; Souček, Jiří) Cartesian currents, weak diffeomorphisms and existence theorems in nonlinear elasticity. 90c:58044
- Minimizing variational integrals among diffeomorphisms. 90m:58053
- Modica, Giuseppe** see Giaquinta, Mariano; et al., 90c:58044
- Müller, Stefan** Weak continuity of determinants and nonlinear elasticity. (French summary) 90c:49023
- A surprising higher integrability property of mappings with positive determinant. 90c:49022
- Souček, Jiří** see Giaquinta, Mariano; et al., 90c:58044
- Suyama, Yoshihiko** Area-minimizing hypersurfaces defined by homotopy classes of mappings of 1-essential manifolds. 90d:58032
- Tamanini, Italo** see Congedo, Giuseppe, 90b:49003
- Taylor, Jean E.** Local ellipticity of F and regularity of F minimizing currents. 90k:49043
- Wei, S. Walter** Plateau's problem in symmetric spaces. 90c:49037

49F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting

- Giaquinta, Mariano** (with Modica, Giuseppe; Souček, Jiří) The Dirichlet energy of mappings with values into the sphere. 90c:49053
- Lackhaus, S.** (with Modica, Luciano) The Gibbs-Thompson relation within the gradient theory of phase transitions. 90k:49041
- Modica, Giuseppe** see Giaquinta, Mariano; et al., 90c:49053
- Modica, Luciano** see Lackhaus, S., 90k:49041
- Morgan, Frank** The torus lemma on calibrations, extended. 90c:49081
- A sharp counterexample on the regularity of Φ -minimizing hypersurfaces. 90k:49042
- Souček, Jiří** see Giaquinta, Mariano; et al., 90c:49053
- Taylor, Jean E.** Local ellipticity of F and regularity of F minimizing currents. 90k:49043
- Items with secondary classifications in 49F22
- Ambrosio, L.** (with Dal Maso, Gianni) A general chain rule for distributional derivatives. 90j:26019
- Carriero, M.** see De Giorgi, E.; et al., 90j:49002
- Dal Maso, Gianni** see Ambrosio, L., 90j:26019
- De Giorgi, E.** (with Carriero, M.; Leaci, A.) Existence theorem for a minimum problem with free discontinuity set. 90j:49002
- Dierkes, Ulrich** Boundary regularity for solutions of a singular variational problem with linear growth. 90b:35107
- A geometric maximum principle for surfaces of prescribed mean curvature in Riemannian manifolds. (German and Russian summaries) 90g:53007
- Ecker, Klaus** Area-minimizing integral currents with movable boundary parts of prescribed mass. (French summary) 90f:49036
- Hardt, R.** (with Kinderlehrer, D.; Luskin, Mitchell) Remarks about the mathematical theory of liquid crystals. 90m:82041
- Horihata, Kazuhiko** Pointwise property of L^p -functions with Nikol'skii condition. (Italian summary) 90m:46057
- Kinderlehrer, D.** see Hardt, R.; et al., 90m:82041
- Leaci, A.** see De Giorgi, E.; et al., 90j:49002
- Luskin, Mitchell** see Hardt, R.; et al., 90m:82041
- Nowakowski, Andrzej** Field theories in the modern calculus of variations. 90a:49027
- White, Brian Cabell** A new proof of the compactness theorem for integral currents. 90c:49052

49F25 Surface area; Weierstrass and Burkhill integrals, subadditive set functions

- Vinti, Calogero** On the Weierstrass integrals of the calculus of variations over BV varieties: recent results of the mathematical seminar in Perugia. 90m:49033
- Items with secondary classifications in 49F25
- Brandi, Primo** (with Salvadori, Anna) On the lower semicontinuity of certain integrals of the calculus of variations. 90m:49005
- Flacca, Antonella** The Burkhill-Cesari integral for Banach-space-valued set functions. (Italian. English summary) 90d:28012
- Salvadori, Anna** see Brandi, Primo, 90m:49005

49F99 None of the above, but in this section

- Delfour, M. C.** (with Zolésio, J.-P.) Shape analysis and optimization: Lagrangian methods and applications. 90f:49039
- Haslinger, J.** (with Neittaanmäki, Pekka) On the design of the optimal covering of an obstacle. 90c:49082
- Neittaanmäki, Pekka** see Haslinger, J., 90c:49082
- Zolésio, J.-P.** see Delfour, M. C., 90f:49039
- Items with secondary classifications in 49F99
- Barber, James S.** (with Horneski, Gregory W.) Higher order versions of Noether's theorem. 90c:58043
- Barnes, David C.** The shape of the strongest column is arbitrarily close to the shape of the weakest column. 90a:73080
- Bieber, Robert** ★ Der Satz von Emmy Noether über invariante Variationsprobleme. (German) [Emmy Noether's theorem on invariant variational problems] 90d:58005
- Blank, M. L.** Metric properties of minimal solutions of discrete periodical variational problems. 90d:58031
- Carriero, M.** (with Dal Maso, Gianni; Leaci, A.; Pascali, E.) Relaxation of the nonparametric plateau problem with an obstacle. 90c:49079

- Dal Maso, Gianni *see* Carriero, M.; et al., 90c:49079
 Delfour, M. C. (with Zolésio, J.-P.) Further developments in the application of min max differentiability to shape sensitivity analysis. 90b:49025
 Essawy, Abdelraïman H. A two-dimensional optimum body shape problem in water waves. 90a:76055
 Fuchs, Martin² Some regularity theorems for mappings which are stationary points of the p -energy functional. 90f:58032
 Fujii, Nobuo *see* Goto, Yoshito, 90j:49021
 Goto, Yoshito (with Fujii, Nobuo) A Newton's method in a domain optimization problem. 90j:49021
 Hansen, Vagn Lundsgaard Minima for elastics on rigid cylinders. 90g:73042
 Haslinger, J. (with Neittaanmäki, Pekka) ★ Finite element approximation for optimal shape design. 90c:49010
 Hildebrandt, Stefan (with Tromba, Anthony) ★ Panoptimum. (German) 90k:00007
 Horneski, Gregory W. *see* Barber, James S., 90c:58043
 Isaci, A. *see* Carriero, M.; et al., 90c:49079
 Lions, P.-L. (with Pacella, Filomena) Isoperimetric inequalities for convex cones. 90i:52021
 Miersemann, Erich On the behaviour of capillaries at a corner. 90j:35081
 Neittaanmäki, Pekka *see* Haslinger, J., 90c:49010
 Nozdarcheva, V. P. A priori estimation of the length of a closed trajectory on a plane. 90f:34016
 Osipov, Yu. S. (with Suetov, A. P.) Qualitative problems in the theory of construction optimization. (Russian) 90c:49004
 Pacella, Filomena *see* Lions, P.-L., 90i:52021
 Pascali, E. *see* Carriero, M.; et al., 90c:49079
 Schoen, Richard Variational theory for the total scalar curvature functional for Riemannian metrics and related topics. 90g:58023
 Suetov, A. P. *see* Osipov, Yu. S., 90c:49004
 Tromba, Anthony *see* Hildebrandt, Stefan, 90k:00007
 Virga, Epifanio G. Drops of nematic liquid crystals. 90j:73019
 Zolésio, J.-P. *see* Delfour, M. C., 90b:49025

49Gxx Variational methods for eigenvalues [see also 47A70]

49G05 Variational approach to eigenvalues

- Auchmuty, Giles Variational principles for eigenvalues of compact operators. 90j:49034
 Pascali, Dan Some variational eigenvalue principles. 90a:49044
 Items with secondary classifications in 49G05
 Barles, G. Remarks on uniqueness results of the first eigenvalue of the p -Laplacian. (French summary) 90b:35173
 Cheng, Bao Long *see* Shen, Yao Tian; et al., 90f:35078
 Degiovanni, M. (with Marino, Antonio) Nonsmooth variational bifurcation. (Italian summary) 90g:58020
 Dittmar, Bodo Monotonie bei Stekloffschen Eigenwerten. (English summary) [Monotonicity in Steklov eigenvalues] 90g:35038
 Dost, Sadik (with Tabrok, B.) A mixed variational formulation for large deformation analysis of plates. 90g:73065
 Filippov, V. M. ★ Variational principles for nonpotential operators. 90i:47066
 Guo, Xin Kang *see* Shen, Yao Tian; et al., 90f:35078
 Lü, De *see* Shen, Yao Tian; et al., 90f:35078
 Marino, Antonio *see* Degiovanni, M., 90g:58020
 Pascali, Dan Nonlinear variational eigenvalue inclusions. 90j:58024
 Sarkar, Tapan K. (with Yang, Xiaopu) Application of the conjugate gradient and steepest descent for computing the eigenvalues of an operator. (French and German summaries) 90m:65243
 (Savchin, V. M.) *see* Filippov, V. M., 90i:47066
 (Schulenberg, J. R.) *see* Filippov, V. M., 90i:47066
 Shen, Yao Tian (with Lü, De; Cheng, Bao Long; Guo, Xin Kang) An eigenvalue problem of quasilinear elliptic systems. (Chinese) 90f:35078
 Tabrok, B. *see* Dost, Sadik, 90g:73065
 Yang, Xiaopu *see* Sarkar, Tapan K., 90m:65243

49G10 Rayleigh-Ritz methods

- Items with secondary classifications in 49G10
 Giusti, Enrico Quadratic functionals with splitting coefficients. 90b:49059
 Kachiev, M. S. An iterative method for minimization of the Rayleigh-Ritz functional. (Russian) 90f:65054
 Zitian, Peter An a posteriori error estimation of the Rayleigh-Ritz eigenvalues. 90d:35223

49G15 Weinstein and Aronszajn methods, intermediate problems

- Items with secondary classifications in 49G15
 Almásy, T. (with Patkó, A.) Systematic lower bounds for lattice Hamiltonians. 90f:81078
 Beattie, Christopher (with Ruskai, Mary Beth) Location of essential spectrum of intermediate Hamiltonians restricted to symmetry subspaces. 90j:81034
 Patkó, A. *see* Almásy, T., 90f:81078
 Ruskai, Mary Beth *see* Beattie, Christopher, 90j:81034

49G20 Linear operators in Hilbert spaces

- Grubb, A. (with Sharma, C. S.) Bounds on eigenvalues of the product and the Jordan product of two positive definite operators on a finite-dimensional Hilbert space.

- 90c:49053
 Sharma, C. S. *see* Grubb, A., 90c:49053
 Items with secondary classifications in 49G20
 Banach, Antoni *see* Beattie, Christopher, 90j:65082
 Beattie, Christopher (with Banach, Antoni) Rapid resolution of truncated intermediate problems. 90j:65082
 Hook, Stephen M. Inequalities for eigenvalues of selfadjoint operators. 90f:47024
 Iskenderov, A. D. (with Yagubov, G. Ya.) A variational method for solving an inverse problem of determining the quantum mechanical potential. 90c:81033
 Lebedev, V. I. A method of composition, and Poincaré-Steklov operators. (Russian) 90d:65110
 Yagubov, G. Ya. *see* Iskenderov, A. D., 90c:81033

49G99 None of the above, but in this section

- Items with secondary classifications in 49G99
 Li, Gong Bao Eigenvalue problems of quasilinear elliptic systems on \mathbb{R}^n . 90c:35072

49H05 Variational principles of physics [see also 70-XX, 81-XX]

- Jones, S. E. *see* Vujanović, B. D., 90j:49035
 Korobitsyn, V. A. Invariant variational-difference schemes and conservation laws. (Russian) 90g:49034
 Vujanović, B. D. (with Jones, S. E.) ★ Variational methods in nonconservative phenomena. 90j:49035
 Items with secondary classifications in 49H05
 Ahmed, Mosleh U. Fundamental theorems of invariance and its applications. (Bengali summary) 90b:58057
 Akulenko, L. D. Constructive control of the motion of oscillating systems with discrete and distributed parameters. (Russian) 90j:93081
 Albu, I. D. (with Opris, D.) Geometry of the bundle $\text{Tr}(\mathcal{E}) \otimes T^*(\mathcal{E})$. 90j:53055
 Bayada, Guy (with Chambat, Michèle; El Alaoui Talibi, M.) Stationary and moving free boundary problems related to the cavitation problems. 90a:76113
 Bogatyreva, N. A. (with Pyatnitskii, E. S.) The minimax principle of mechanics and its application to optimal control problems. 90c:70021
 Brenier, Yann The least action principle and the related concept of generalized flows for incompressible perfect fluids. 90g:58012
 Brown, G. J. N. (with Crothers, D. S. F.) Generalised gauge invariance of electromagnetism. 90k:78063
 Burton, G. R. Rearrangements of functions, saddle points and uncountable families of steady configurations for a vortex. 90m:58052
 Castañeda, P. Ponte The overall constitutive behaviour of nonlinearly elastic composites. 90c:73039
 Cendra, Herman (with Ibori, Luis A.; Marsden, J. E.) Variational principles on principal fiber bundles: a geometric theory of Clebsch potentials and Lin constraints. 90c:58038
 Chambat, Michèle *see* Bayada, Guy; et al., 90a:76113
 Crothers, D. S. F. *see* Brown, G. J. N., 90k:78063
 Demkowicz, L. *see* Szefer, G.; et al., 90c:73043
 Douglas, J., Jr. (with Gupta, Chaitan P.) Superconvergence and interior estimates for a mixed finite element method for elastic waves in a planar domain. (Portuguese summary) 90k:65172
 El Alaoui Talibi, M. *see* Bayada, Guy; et al., 90a:76113
 Eydeland, Alexander (with van Groesen, E.) An extended self-organisation principle for modelling and calculating the dissipation of 2D confined vortices. 90g:76047
 Fonte, G. Extension of a recent theory of variational principles in complex Banach spaces. (Italian and Russian summaries) 90a:58039
 Gao, Yang (with Huang, Ke Zhi) Complementary energy principles for elasto-perfect plasticity. 90c:73042
 — (with Strang, Gilbert) Geometric nonlinearity: potential energy, complementary energy, and the gap function. 90k:73024
 Garsev, K. G. A remark on E. Noether's theory. (Russian) 90k:58253
 van Groesen, E. *see* Eydeland, Alexander, 90g:76047
 Gupta, Chaitan P. *see* Douglas, J., Jr., 90k:65172
 Huang, Ke Zhi *see* Gao, Yang, 90c:73042
 Huang, Yong Jian Variational principles in linear elastodynamics. (Chinese. English summary) 90c:73042
 Ibori, Luis A. *see* Cendra, Herman; et al., 90c:58038
 Kamath, S. G. The brachistochrone in almost flat space. 90a:70020
 Kinderlehrer, D. (with Vergara-Caffarelli, Giorgio) The relaxation of functionals with surface energies. 90m:49025
 Kobele, V. V. An isoperimetric inequality in a problem of the stability of a circular ring under normal pressure. 90f:73036
 Kratoch, A. N. Planar and axially symmetric configurations which are circumvented with the maximum critical Mach number. 90f:76110
 Loffredo, Maria I. (with Morato, Laura M.) Lagrangian variational principle in stochastic mechanics: gauge structure and stability. 90c:81049
 Marsden, J. E. *see* Cendra, Herman; et al., 90c:58038
 Misawa, Tetsuya Noether's theorem in symmetric stochastic calculus of variations. 90f:81033
 Morato, Laura M. *see* Loffredo, Maria I., 90c:81049
 Mróz, Z. *see* Szefer, G.; et al., 90c:73043
 Opris, D. *see* Albu, I. D., 90j:53055
 Pyatnitskii, E. S. *see* Bogatyreva, N. A., 90c:70021
 Ray, John R. *see* Smalley, I. L., 90a:83070

- Schmid, Rudolf (with Simoni, Alberto) On infinite-dimensional variational principles with constraints. 90c:58039
- Simoni, Alberto see Schmid, Rudolf, 90c:58039
- Smalley, L. L. (with Ray, John R.) On the Lagrangian formulation of spinning fluids in Riemann-Cartan spacetime. 90a:83070
- Strang, Gilbert see Gao, Yang, 90c:73024
- Szefer, G. (with Mróz, Z.; Demkowicz, L.) Variational approach to sensitivity analysis in nonlinear elasticity. (Russian and Polish summaries) 90c:73043
- Talbot, D. R. S. (with Willis, J. R.) Bounds and self-consistent estimates for the overall properties of nonlinear composites. 90c:73030
- Telega, József Joachim On the complementary energy principle in nonlinear elasticity. I. von Kármán plates and three-dimensional solids. (French summary) 90c:73025
- Toland, J. F. (with Willis, J. R.) Duality for families of natural variational principles in nonlinear elastostatics. 90c:78010
- Vald, Reger Formulation symétrique couplée primale-duale et concept de masse ajoutée en élastodynamique non linéaire. (English summary) [Coupled primal-dual symmetric formulation and added-mass concept in nonlinear elastodynamics] 90c:73044
- Vergara-Caffarelli, Giorgio see Kinderlehrer, D., 90m:49025
- Virga, Eufanio G. On the variation of the Hamiltonian functional for an immiscible mixture. 90c:76043
- Willis, J. R. see Talbot, D. R. S., 90c:73030 and Toland, J. F., 90c:78010

51-XX Geometry {For algebraic geometry, see 14-XX.}

51-01 Elementary exposition; textbooks

- Berger, Marcel (with Berry, Jean-Pic; Pansu, Pierre; Saint Raymond, Xavier) ★ Задачи по геометрии с комментариями и решениями. (Russian) [Problems in geometry with hints and solutions] 90c:51001
- Berry, Jean-Pic see Berger, Marcel; et al., 90c:51001
- Bestelspacher, A. (with Petri, Bernhard) ★ Der goldene Schnitt. (German) [The golden section] 90c:51001
- Cederberg, Judith N. ★ A course in modern geometries. 90c:51001
- Coxeter, H. S. M. ★ Introduction to geometry. 90a:51001
- Dombrovskii, M. see Postnikov, M. M., 90c:51001
- Iversen, Birger ★ An invitation to geometry. 90c:51001
- (Mikhoev, P. O.) see Berger, Marcel; et al., 90c:51001
- Pansu, Pierre see Berger, Marcel; et al., 90c:51001
- Pedoe, Dan ★ Geometry. 90c:51001
- Petri, Bernhard see Bestelspacher, A., 90c:51001
- Postnikov, M. M. ★ Geometria analitica. (Portuguese) [Analytic geometry] 90c:51001
- Prasolov, V. V. (with Sharygin, I. F.) ★ Задачи по стереометрии. (Russian) [Problems in stereometry] 90c:51002
- (Sabinin, L. V.) see Berger, Marcel; et al., 90c:51001
- Saint Raymond, Xavier see Berger, Marcel; et al., 90c:51001
- Sándor, József ★ Geometriai egyenlőtlenségek. (Hungarian) [Geometric inequalities] 90c:51002
- (Shitova, L. V.) see Berger, Marcel; et al., 90c:51001
- Schapp, Hans ★ Kegelschnitte. (German) [Conic sections] 90c:51002
- Sharygin, I. F. see Prasolov, V. V., 90c:51002
- Snapper, Ernst (with Troyer, Robert J.) ★ Metric affine geometry. 90c:51001
- Sortais, René see Sortais, Yvonne, 90c:51002
- Sortais, Yvonne (with Sortais, René) ★ Géométrie de l'espace et du plan. (French) [Spatial and planar geometry] 90c:51002
- (Trofimov, V. V.) see Berger, Marcel; et al., 90c:51001
- Troyer, Robert J. see Snapper, Ernst, 90c:51001
- Yale, Paul B. ★ Geometry and symmetry. 90c:51003
- Items with secondary classifications in 51-01
- Aroca Hernández-Ros, José M. (with Fernández Bernejo, María Josefa) ★ Álgebra lineal y geometría. (Spanish) [Linear algebra and geometry] 90c:15001
- Boltyanskii, V. G. Rotation and central symmetry. (Russian) 90m:51005
- Dudayana, A. A. (with Dudarenko, V. A.) ★ Алгебра и геометрия. (Russian) [Algebra and geometry] 90m:00005
- Deschauer, Stefan Steiners Satz über die kopunktalen Seitenkreisen des Dreiecks im Geometrieunterricht. (Steiner's theorem on concurrent perpendiculars of a triangle in the teaching of geometry) 90c:51020
- Dudarenko, V. A. see Dudayana, A. A., 90m:00005
- Fernández Bernejo, María Josefa see Aroca Hernández-Ros, José M., 90c:15001
- Fucke, Rudolf (with Kirch, Konrad; Nickel, Heinz) ★ Darstellende Geometrie. (German) [Descriptive geometry] 90c:51031
- Galluzzi, Dionisio Gems of Euclidean geometry. (Italian) 90c:51022
- Kalman, Dan The axis of a rotation: analysis, algebra, geometry. 90c:51015
- Kirch, Konrad see Fucke, Rudolf; et al., 90c:51031
- Nickel, Heinz see Fucke, Rudolf; et al., 90c:51031

51-02 Advanced exposition (research surveys, monographs, etc.)

- Arita, E. ★ Geometric algebra. 90c:51003
- Ferrand, Jacqueline ★ Основания геометрии. (Russian) [The foundations of geometry] 90c:51004
- (Ryzhkov, V. V.) see Ferrand, Jacqueline, 90c:51004

Items with secondary classifications in 51-02

- Bokowski, Jürgen (with Sturmfels, Bernd) ★ Computational synthetic geometry. 90c:52001
- Ronan, M. A. ★ Lectures on buildings. 90j:20001
- Sturmfels, Bernd see Bokowski, Jürgen, 90c:52001
- Yun, Tian Quan Primary research on subjectivity geometry. (Not in MR)

51-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 51-03

- Arreguin, Guillermo Applications of exterior algebra to geometry. (Spanish) 90c:15041
- Baptist, Peter Historische Anmerkungen zu Gergonne- und Nagel-Punkt. [Historical comments on Gergonne and Nagel points] 90d:01027
- Bariotti, Adriano (with Rosati, L. A.) Guido Zappa and combinatorial geometry. (Italian) 90c:01056
- Bennett, Mary Katherine see Birkhoff, Garrett, 90c:01041
- Birkhoff, Garrett (with Bennett, Mary Katherine) Hilbert's Grundlagen der Geometrie. 90c:01041
- Bogolyubov, Aleksei Nikolaevich ★ Жан Виктор Понсе. 1788-1867. (Russian) [Jean-Victor Poncelet. 1788-1867] 90c:01062
- (Bolyai, János) see Livanova, Anna, 90m:01028
- (Burali-Forti, Cesare) see Freguglia, Paolo, 90c:01034
- Fava, Franco The Academy's contribution to the development of geometry. (Italian) 90c:01137
- Freguglia, Paolo Cesare Burali-Forti and studies on geometric calculus. (Italian) 90c:01034
- (Gauss, Carl Friedrich) see Livanova, Anna, 90c:01028
- (Hilbert, D.) see Birkhoff, Garrett, 90c:01041
- Hrubec, Jaromír Logic and history in the development of stereometry. (Czech. English summary) 90j:01009
- Jami, Catherine Western influence and Chinese tradition in an eighteenth century Chinese mathematical work. (French and Chinese summaries) 90a:01009
- Karzel, Helmut (with Kroll, Hans-Joachim) ★ Geschichte der Geometrie seit Hilbert. (German) [History of geometry since Hilbert] 90m:01036
- (Krilova, Nina) see Livanova, Anna, 90m:01028
- (Krilova, Andreja) see Livanova, Anna, 90m:01028
- Kroll, Hans-Joachim see Karzel, Helmut, 90m:01036
- Livanova, Anna ★ Trīs liktepi. (Latvian) [Three lives] 90m:01028
- (Lobachevskii, N. I.) see Livanova, Anna, 90m:01028
- Mjelbo, Lars C. ★ Om den elementære geometriske historie. (Danish) [On the history of elementary geometry] 90j:01004
- (Poncelet, Jean-Victor) see Bogolyubov, Aleksei Nikolaevich, 90c:01062
- (Pozzo, Andrea) see Zhao, Qing Huan, 90c:01006
- Rosati, L. A. see Bariotti, Adriano, 90c:01056
- Weinstein, Hartmut Eine antike Näherungsformel für den Vierecksinhalt. [An ancient approximation formula for the area of the parallelogram] 90c:01003
- (Zappa, Guido) see Bariotti, Adriano, 90c:01056
- Zhao, Qing Huan The effect of *Prospettiva de' pittori, e architetti* by Andrea Pozzo (b. Trent, 1642, d. Vienna, 1709) on Chinese painting, drawing and architecture. 90c:01006

Items listed otherwise than by author

- Bibliography:
Poncelet, Jean-Victor see Bogolyubov, Aleksei Nikolaevich, 90c:01062
- Biography:
Bolyai, János see Livanova, Anna, 90m:01028
- Gauss, Carl Friedrich see Livanova, Anna, 90m:01028
- Lobachevskii, N. I. see Livanova, Anna, 90m:01028
- Poncelet, Jean-Victor see Bogolyubov, Aleksei Nikolaevich, 90c:01062

51-04 Explicit machine computation and programs (not the theory of computation or programming)

- Chou, Shang-Ching ★ Mechanical geometry theorem proving. 90c:51003
- Hayashi, Elchi A REDUCE application program. 90c:51002
- Ludwig, M. Spezielle Probleme bei der Modellierung geometrischer Objekte—Verknüpfung von Translationsobjekten. [Special problems in the modelling of geometric objects—connection of translation objects] 90c:51003
- Vasiu, Angela (with Vlaic, Iuliu) About graphics representation of the surfaces given by parametric equations. (see 90d:53002)
- Vlaic, Iuliu see Vasiu, Angela, (90d:53002)
- Wang, Dong Ming A new theorem discovered by computer prover. 90c:51001
- (Woo, Larry) see Chou, Shang-Ching, 90c:51003

Items with secondary classifications in 51-04

- Arnon, Dennis S. (with Mignotte, Maurice) On mechanical quantifier elimination for elementary algebra and geometry. 90a:03010
- (with Collins, George E.; McCallum, Scott) An adjacency algorithm for cylindrical algebraic decompositions of three-dimensional space. 90c:68048a
- A cluster-based cylindrical algebraic decomposition algorithm. 90c:68048b
- Bloemendal, Jules Natural shapes and implicit models. (see 90d:51002)
- Carra Ferro, Giuseppe (with Gallo, Giovanni) A procedure to prove geometrical statements. 90c:68065
- Chen, Xiang Ping (with Ying, Dao Ning) An algorithm for triangulating an arbitrary polygon. (Chinese. English summary) (Not in MR)
- Chou, Shang-Ching An introduction to Wu's method for mechanical theorem proving in geometry. 90c:03019
- Collins, George E. see Arnon, Dennis S.; et al., 90c:68048a
- Deng, Mi Ke A parallel numerical method for proving constructive geometric theorems. (Chinese) (Not in MR)

- Gallo, Giovanni *see* Carrà Ferro, Giuseppe, 90b:68065
- Goguen, Joseph A. Modular algebraic specification of some basic geometrical constructions. 90c:68072
- Hartley, Richard I. Drawing polygons given angle sequences. (Not in MR)
- Hartmann, Erich ★ Computerunterstützte Darstellende Geometrie. (German) [Computer-aided descriptive geometry] 90f:51026
- Heminger, H. (with Noltemeyer, H.) On separable clusterings. 90d:68076
- Lam, C. W. H. (with Thiel, Larry Henry; Swiercz, S.) The nonexistence of finite projective planes of order 10. 90j:51008
- McCallum, Scott *see* Arnon, Dennis S.; et al., 90g:68040a
- Mignotte, Maurice *see* Arnon, Dennis S., 90a:03010
- Noltemeyer, H. *see* Heminger, H., 90d:68076
- O'Connor, Michael A. Natural quadrics: projections and intersections. 90g:68140
- Swiercz, S. *see* Lam, C. W. H.; et al., 90j:51008
- Thiel, Larry Henry *see* Lam, C. W. H.; et al., 90j:51008
- Wang, Dong Ming The "proving by examples" method and inclusion relations for algebraic varieties. (Chinese. English summary) 90d:03024
- Wang, Jia Ye *see* Wang, Wen Ping, 90c:68097
- Wang, Wen Ping (with Wang, Jia Ye) A new method for generating conic sections. 90c:68097
- Winkler, Franz A geometrical decision algorithm based on the Gröbner bases algorithm. (See 90i:00005)
- Wu, Wen Jun Errata and addenda to the paper: "A mechanization method of geometry. I. Elementary geometry" [Chinese Quart. J. Math. 1 (1986), no. 1, 1-14; MR 88b:03023]. 90f:03028
- On reducibility problem in mechanical theorem proving of elementary geometries. (Chinese summary) 90i:03016
- A mechanization method of geometry and its applications. I. Distances, areas, and volumes in Euclidean and non-Euclidean geometries. 90d:03025
- Ying, Dao Ning *see* Chen, Xiang Ping, (Not in MR)

51-06 Proceedings, conferences, etc.

- (Argunov, B. I.) *see* Geometry of incidence structures and of differential equations, 90k:51002
- (Deer, V. M.) *see* Geometric modeling and descriptive geometry, 90d:51001
- (Slaby, Steve M.) *see* Proceedings: Conference on Engineering Graphics and Descriptive Geometry, 90d:51002 and 90d:51003
- (Stachel, Hellmuth) *see* Proceedings: Conference on Engineering Graphics and Descriptive Geometry, 90d:51002 and 90d:51003

Items listed otherwise than by author

Conference:

- Engineering Graphics and Descriptive Geometry ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 1. 90d:51002
- ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 2. 90d:51003
- Geometric Modeling and Descriptive Geometry ★ Геометрическое моделирование и начертательная геометрия. (Russian) [Geometric modeling and descriptive geometry] 90d:51001
- Geometric modeling and descriptive geometry ★ Геометрическое моделирование и начертательная геометрия. (Russian) [Geometric modeling and descriptive geometry] 90d:51001
- Geometry of incidence structures and of differential equations ★ Геометрия инцидентных структур и дифференциальных уравнений. (Russian) [The geometry of incidence structures and of differential equations] 90k:51002
- Proceedings:
- Conference on Engineering Graphics and Descriptive Geometry ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 1. 90d:51002
- ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 2. 90d:51003
- Vienna ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 1. 90d:51002
- ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 2. 90d:51003

51Axx Linear incidence geometry

51A05 General theory and projective geometries

- Argunov, B. I. (with Emel'chenkov, E. P.) Projective and affine planes and their generalizations. (Russian) (See 90k:51002)
- Bhattarai, Hom Nath Pasch geometric spaces inducing finite projective planes. 90c:51002
- Emel'chenkov, E. P. *see* Argunov, B. I., (90k:51002)
- Janić, Milan A model of n -dimensional projective space. (Serbo-Croatian. Russian summary) 90a:51002
- Kur'yakov, M. M. Translations of affine pseudoplanes, and pseudoternaries. (Russian) (See 90k:51002)
- Kusak, Eugeniusz Orthogonality relations on projective planes. 90f:51001
- Lashkhi, A. A. Axiomatics of PI -projective geometry. (Russian. English and Georgian summaries) 90b:51003
- Strantzen, J. B. Infinite dimensions for ordered incidence geometry. 90k:51003
- Items with secondary classifications in 51A05
- Bichara, Alessandro (with Somma, Clelia) On Schubert manifold associated with a projective space. 90b:51010
- Cederberg, Judith N. ★ A course in modern geometries. 90g:51001
- Rajola, Sandro Some linear spaces with lines of two lengths. 90i:51007
- Somma, Clelia *see* Bichara, Alessandro, 90b:51010

51A10 Homomorphism, automorphism and dualities

- Brauner, Heinrich Über die von Kollineationen projektiver Räume induzierten Geradenbildungen. [On line formations which are induced by collineations of projective spaces] 90h:51005
- Klotz, Benno Eine Verallgemeinerung des Satzes von v. Staudt-Hua. (English and Russian summaries) [A generalization of the von Staudt-Hua theorem] 90c:51004
- Mäurer, Helmut (with Siemon, H.) On the automorphisms of normal subgroups of the collineation group of affine spaces. 90a:51003
- Prince, Alan R. The Hall-Janko group as a collineation group of an infinite projective plane. 90a:51004
- Shatokhin, N. L. Isotopies of planar pseudoternary rings, and pseudoplanes. (Russian) (See 90k:51002)
- Homomorphisms of H -planes, and PH -ternaries. (Russian) (See 90k:51002)
- Siemon, H. *see* Mäurer, Helmut, 90a:51003
- Items with secondary classifications in 51A10
- Bray, H. G. *see* Killgrove, R. B.; et al., 90a:05040
- Gevaert, Hans (with Keppens, Dirk) Epimorphisms of partial geometries onto generalized quadrangles. 90d:51007
- Haylick, Hans Durch Kollineationsgruppen bestimmte projektive Räume. [Projective spaces determined by collineation groups] 90b:51004
- James, Donald G. Projective geometry over rings with stable range condition. 90f:51008
- Kegel, O. H. Automorphisms. 90a:20055
- Keppens, Dirk *see* Gevaert, Hans, 90d:51007
- Kiel, D. I. *see* Killgrove, R. B.; et al., 90a:05040
- Killgrove, R. B. (with Sternfeld, R. W.; Kiel, D. I.; Koster, D. W.; Parker, E. T.; Bray, H. G.) More on local motions. 90a:05040
- Kilmer, Dirk Über die Projektivitätsgruppen von Semikörperebenen gerader Ordnung. (English summary) [On the groups of projectivities of semifields of even order] 90f:51011
- Koster, D. W. *see* Killgrove, R. B.; et al., 90a:05040
- Lashkhi, A. A. Harmonic mappings and collineations of modules. (Russian. English and Georgian summaries) 90m:16005
- Parker, E. T. *see* Killgrove, R. B.; et al., 90a:05040
- Sternfeld, R. W. *see* Killgrove, R. B.; et al., 90a:05040
- Zeitler, Herbert Über die Automorphismengruppen endlicher affiner und projektiver Räume. [On the automorphism groups of finite affine and projective spaces] 90b:20005

51A15 Structures with parallelism

- Basile, Alessandro (with Brutti, Paolo) Algebraic structure of the coordinates of a translation transversal design. (Italian) 90h:51006
- Brauner, Heinrich Eine Kennzeichnung der Ähnlichkeiten affiner Räume mit definierter Orthogonalitätsstruktur. [A characterization of the similarities of affine spaces with definite orthogonality structure] 90c:51003
- Brutti, Paolo *see* Basile, Alessandro, 90h:51006
- Goldblatt, Robert First-order spacetime geometry. 90m:51001
- Lenz, Hansfried Zur Begründung der affinen Geometrie des Raumes. [Foundation of the affine geometry of space] 90h:51007
- Lettrich, Jaroslav Translation structures. II. Collineations in translation structures. (Slovak. English, German and Russian summaries) 90e:51005a
- Translation structures. III. Translation structures over a nonplanar near-field. (Slovak. English, German and Russian summaries) 90e:51005b
- (with Perentaj, Ján) On orthogonality in nets. (Russian and Slovak summaries) 90a:51005
- Perentaj, Ján *see* Lettrich, Jaroslav, 90a:51005

Items with secondary classifications in 51A15

- Prażmowska, Małgorzata (with Prażmowski, Krzysztof) An axiom system describing degenerate hyperbolic planes in terms of directed parallelity. 90b:51009
- Prażmowski, Krzysztof *see* Prażmowska, Małgorzata, 90b:51009

51A20 Configuration theorems

- Bichara, Alessandro (with Somma, Clelia) On the flag space associated with an affine or projective space. 90e:51006
- Funk, Martin Octagonality conditions in projective and affine planes. 90c:51004
- Khubzhty, I. A. The theorem L_7 . (Russian) (See 90k:51002)
- Somma, Clelia *see* Bichara, Alessandro, 90e:51006
- Witczyński, Krzysztof A geometrical proof of the generalized Pappus theorem. 90g:51004

Items with secondary classifications in 51A20

- Bucsic, Stanislaw The Poncelet configuration of closing for normal curves. 90g:51044
- Hering, Christoph On Szép's conjecture concerning factorizations of finite groups. 90c:20031
- Libicher, Jaroslav Classification of incidence structures with similarity relation. (Czech summary) 90a:51012
- Misra, Saroj Kanta *see* Sanyal, Arun, 90k:51040
- Sanyal, Arun (with Misra, Saroj Kanta) Veronesian pair and associated desmic system. 90k:51040

51A25 Algebraization [see also 12Kxx, 20N10]

- Bleszk, Leon (with Stasiak, Eugeniusz) Sur deux formes équivalentes de la notion de (r, s) -orientation de la géométrie de Klein. [On two equivalent forms of the notion of (r, s) -orientation of Klein geometry] 90c:51005
- Burda, Pavel On Fano condition. 90f:51002
- (Euler, Leonhard) *see* Shashkin, Yu. A., 90j:51002
- (Mirchevski, B.) *see* Shashkin, Yu. A., 90j:51002

- Sedlář, Vladimír Construction of a solvable planar Cartesian group. (Czech. English summary) 90k:51004
 Shashkin, Yu. A. ★ Característica euleriana. (Spanish) [The Euler characteristic] 90j:51002
 Stasiak, Eugeniusz *see* Błaszczak, Leon, 90c:51005

Items with secondary classifications in 51A25

- Hanssens, G. (with Van Maldeghem, H.) Algebraic properties of quadratic quaternary rings. 90d:51021
 Herzer, A. Zu einem Satz von H. Lüneburg über verallgemeinerte André-Ebenen. [On a theorem of H. Lüneburg on generalized André planes] 90c:51006
 Ušan, Janer A class of 6-groupoids and 2H-geometries. (Russian. Serbo-Croatian summary) 90h:20101
 Van Maldeghem, H. *see* Hanssens, G., 90d:51021

51A30 Desarguesian and Pappian geometries

- Eliseev, E. M. Desarguesian theorems and their connection with collineations of a Hjelmslev projective plane. (Russian) (see 90k:51002)
 Havlicek, Hans Durch Kollineationsgruppen bestimmte projektive Räume. [Projective spaces determined by collineation groups] 90b:51004
 — Hyperoskulierende Kegelschnitte in Pappos-Ebenen der Charakteristik zwei. [Hyperosculating conics in Pappos planes of characteristic two] 90j:51003

Items with secondary classifications in 51A30

- Beutelspacher, A. (with Veldner, Klaus) Geometric structures as threshold schemes. 90k:51013
 Bray, H. G. *see* Killgrove, R. B.; et al., 90a:05040
 Kiel, D. I. *see* Killgrove, R. B.; et al., 90a:05040
 Killgrove, R. B. (with Sternfeld, R. W.; Kiel, D. I.; Koster, D. W.; Parker, E. T.; Bray, H. G.) More on local motions. 90a:05040
 Koster, D. W. *see* Killgrove, R. B.; et al., 90a:05040
 Lindström, B. On p -polynomial representations of projective geometries in algebraic combinatorial geometries. 90d:51012
 Mandan, Sahib Ram Hesse's theorem in n -space. 90a:51022
 — (with Sanyal, Arun) An extension of Hesse's theorem in an n -space P_n . 90a:51023
 Parker, E. T. *see* Killgrove, R. B.; et al., 90a:05040
 Prasova, G. N. On a system of Pappos configuration statements. (Russian) (see 90k:51002)
 Sanyal, Arun *see* Mandan, Sahib Ram, 90a:51023
 Sternfeld, R. W. *see* Killgrove, R. B.; et al., 90a:05040
 Veldner, Klaus *see* Beutelspacher, A., 90k:51013
 Wang, Dong Ming A new theorem discovered by computer prover. 90k:51001
 Witczyński, Krzysztof A geometrical proof of the generalized Pappus theorem. 90g:51004

51A35 Non-Desarguesian affine and projective planes

- Chen, Gal Spreads and the construction of non-Desarguesian planes. (Chinese. English summary) 90d:51004
 Evans, Anthony B. Orthomorphism graphs of groups. 90d:51005
 Faulkner, John R. A geometric construction of Moufang planes. 90f:51003
 Johnson, Norman Lloyd¹ Derivation is a polarity. 90d:51006
 Kalhoff, Franz Ebenen der Lenz-Barlotti Klasse III.2, die keine Moulton-Ebenen sind. [Planes of the Lenz-Barlotti class III.2 which are not Moulton planes] 90k:51005

Items with secondary classifications in 51A35

- Cherowitz, William E. Ovals in Figueroa planes. 90k:51016
 Evans, Anthony B. On planes of prime order with translations and homologies. 90e:51015
 Feit, Walter Finite projective planes and a question about primes. 90e:51016
 Moorhouse, G. Eric PSL(2, q) as a collineation group of projective planes of small order. 90c:51013
 Prince, Alan R. The Hall-Janko group as a collineation group of an infinite projective plane. 90a:51004

51A40 Translation planes and spreads

- Biliotti, Mauro (with Jha, Vikram; Johnson, Norman Lloyd¹; Menichetti, Giampaolo) A structure theory for two-dimensional translation planes of order q^2 that admit collineation groups of order q^2 . 90a:51006
 Durgaprasad, K. V. *see* Narayana Rao, M. L.; et al., 90f:51004
 Herzer, A. Zu einem Satz von H. Lüneburg über verallgemeinerte André-Ebenen. [On a theorem of H. Lüneburg on generalized André planes] 90c:51006
 Jha, Vikram (with Johnson, Norman Lloyd¹) A characterization of some spreads of order q^2 that admit GL(2, q) as a collineation group. 90a:51007
 — *see also* Biliotti, Mauro; et al., 90a:51006
 Johnson, Norman Lloyd¹ On derivable Baer-elation planes. 90g:51005
 — Sequences of derivable translation planes. 90c:51007
 — Nest replaceable translation planes. 90k:51006
 — The derivation of dual translation planes. 90k:51007
 — Translation planes admitting Baer groups and partial flocks of quadric sets. 90k:51008
 — *see also* Biliotti, Mauro; et al., 90a:51006 and Jha, Vikram, 90a:51007
 Kuppuswamy Rao, K. *see* Narayana Rao, M. L.; et al., 90f:51004
 Menichetti, Giampaolo *see* Biliotti, Mauro; et al., 90a:51006
 Narayana Rao, M. L. (with Kuppuswamy Rao, K.; Durgaprasad, K. V.) A class of d -dimensional flag transitive translation planes. 90f:51004
 — (with Satyanarayana, K.; Vithal Rao, G.) On a class of derived translation planes of square order. 90c:51008
 Podolskii, N. D. (γ, γ)-transitive finite projective planes. (Russian) 90g:51006
 Satyanarayana, K. *see* Narayana Rao, M. L.; et al., 90c:51008
 Vithal Rao, G. *see* Narayana Rao, M. L.; et al., 90c:51008

Items with secondary classifications in 51A40

- Chen, Gal Spreads and the construction of non-Desarguesian planes. (Chinese. English summary) 90d:51004
 Ebert, G. L. Spreads admitting regular elliptic covers. 90c:51013
 Jakubowski, Jan Conjugate points of a translation plane of order 9 and its extensibility to a Minkowski plane. 90b:51014
 Jha, Vikram (with Johnson, Norman Lloyd¹) An analog of the Albert-Knuth theorem on the orders of finite semifields, and a complete solution to Cofman's subplane problem. 90c:51009
 Johnson, Norman Lloyd¹ (with Pomareda, Rolando) André planes and nests of reguli. 90k:51014
 — A characterization of the Hall planes by planar and nonplanar involutions. 90i:51010
 — Flocks of hyperbolic quadrics and translation planes admitting affine homologies. 90c:51014
 — Semifield planes of characteristic p admitting p -primitive Baer collineations. 90b:51012
 — *see also* Jha, Vikram, 90c:51009
 Joshi, Vinod *see* Narayana Rao, M. L.; et al., 90i:51012
 Kuppuswamy Rao, K. Finite translation planes. 90i:51011
 — *see also* Narayana Rao, M. L.; et al., 90i:51012
 Narayana Rao, M. L. (with Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 49 with 48 ideal points in a single orbit. 90i:51012
 O'Keefe, Christine M. Regularity of 1-spreads of PG(2s + 1, q). 90d:51016
 Pomareda, Rolando *see* Johnson, Norman Lloyd¹, 90k:51014

51A45 Incidence structures imbeddable into projective geometries

- Johnson, Norman Lloyd¹ Derivable nets and 3-dimensional projective spaces. 90i:51004
 Metsch, Klaus Embedding finite planar spaces into 3-dimensional projective spaces. 90h:51008
 Percy, Nicolas On the Buckenhoust-Shult theorem on polar spaces. 90j:51004
 Rahilly, Alan Embeddings of maximal arc type in finite projective planes. 90j:51005

Items with secondary classifications in 51A45

- Brauer, Heinrich Über die von Kollineationen projektiver Räume induzierten Geradenbildungen. [On line formations which are induced by collineations of projective spaces] 90h:51005
 Burda, Pavel On Fano condition. 90f:51002
 Evans, Anthony B. Orthomorphism graphs of groups. 90d:51005
 Glynn, David G. Rings of geometries. II. 90c:51012
 Johnson, Norman Lloyd¹ On derivable Baer-elation planes. 90g:51005
 — Derivation is a polarity. 90d:51006
 Melone, N. (with Olanda, D.) (1, 2)-semi-affine planar spaces. (Italian. English summary) 90a:51008
 Mendelsohn, N. S. (with Padmanabhan, R.; Wolk, B.) Designs embeddable in a plane cubic curve. (Part 2 of Planar projective configurations). 90h:51016
 Olanda, D. *see* Melone, N., 90a:51008
 Padmanabhan, R. *see* Mendelsohn, N. S.; et al., 90h:51016
 Tamari, Fumikazu / intersection empty sets (or /-IE sets) and linear codes. 90c:94033
 Wolk, B. *see* Mendelsohn, N. S.; et al., 90h:51016

51A99 None of the above, but in this section

- Herzer, A. Generalized Segre varieties. (Italian) 90b:51005
 Waligóra, Bogusława On some dimension-free central similarity system. 90e:51007

Items with secondary classifications in 51A99

- Johnson, Peter Malcolm (with Shult, Ernest) Local characterizations of polar spaces. 90e:51022
 Shult, Ernest *see* Johnson, Peter Malcolm, 90e:51022
 Wilde, Alan C. Properties of affine projections. (Italian summary) 90h:15007
 Zong, Chuan Ming An analysis of the structure of point systems. (Chinese. English summary) (Not in MR)

51Bxx Nonlinear incidence geometry

51B05 General theory

- Gel'fand, Bernard Remarques sur les revêtements et quotients de géométries. [Remarks on the coverings and quotients of geometries] 90e:51008
 Gevaert, Hans (with Keppens, Dirk) Epimorphisms of partial geometries onto generalized quadrangles. 90d:51007
 Keppens, Dirk *see* Gevaert, Hans, 90d:51007

51B10 Möbius geometries

- Key, J. D. (with Rostom, N. K. A.) A characterisation of some finite inversive planes. 90c:51009
 Lozanov, Chavdar Minimal subplanes and groups of automorphisms that preserve a circle in non-Miquelian inversive planes $S(q)$. (Russian. English summary) 90e:51009
 — A geometric characterization of quadruples of concircular points in non-Miquelian inversive planes $S(q)$. (Russian. English summary) 90e:51010
 Rostom, N. K. A. *see* Key, J. D., 90c:51009
 Zettler, Herbert Orthogonal quadruples in finite (K, L) -planes. 90b:51006

Items with secondary classifications in 51B10

- Castro, Sergio Miquelsche Minkowski-Ebenen in spiegungsgeometrischer Darstellung. [Miquelian Minkowski planes in reflection-geometric representation] 90d:51008
 Fisher, P. H. (with Penttilä, Tim; Praeger, Cheryl E.; Royle, Gordon F.) Inverse planes of odd order. 90e:51023

- Jankovský, Zdeněk Zur Möbiusschen Geometrie und Kinematik in H^3 . (Russian and Czech summaries) [On the Möbius geometry and kinematics in H^3] 90k:53017
- Penttilä, Tim see Fisher, P. H.; et al., 90c:51023
- Prager, Cheryl E. see Fisher, P. H.; et al., 90c:51023
- Royle, Gordon F. see Fisher, P. H.; et al., 90c:51023
- Tang, Hong E. An elementary study of the properties of rational circle curves. (Chinese. English summary) 90c:51031

51B20 Minkowski geometries

- Castro, Sergio Miquelische Minkowski-Ebenen in spiegelsymmetrischer Darstellung. [Miquelian Minkowski planes in reflection-geometric representation] 90d:51008
- Pfeiffer, W. F. Corrections to: "Lorentz transformations of a Hilbert space" [Amer. J. Math. 103 (1981), no. 4, 691–709; MR 82h:53037]. 90g:51007
- Zeidler, Herbert A geometrical classification of finite (K, R) -planes. 90i:51005

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- Bonisoli, Arrigo On resolvable finite Minkowski planes. 90j:51012
- Goldblatt, Robert First-order spacetime geometry. 90m:51001
- Jakobowski, Jan Conjugate points of a translation plane of order 9 and its extensibility to a Minkowski plane. 90h:51014
- Rinaldi, Gloria Minkowski semiplanes. 90j:51013
- Minkowski near-planes. 90j:51014
- Ruban, A. A. Minkowski spaces with a nontrivial group of isometries make up a nowhere dense set. 90k:51026

51B25 Lie geometries

- Cohen, Arjeh M. (with Cooperstein, Bruce N.) On the local recognition of finite metasymplectic spaces. 90k:51009
- Cooperstein, Bruce N. A finite flag-transitive geometry of extended G_2 -type. 90h:51009
- see also Cohen, Arjeh M., 90k:51009
- Pasini, Antonio On a theorem by Aschbacher. 90b:51007
- Shult, Ernest Characterizations of spaces related to metasymplectic spaces. 90f:51005
- Van Maldeghem, H. Generalized polygons with valuation. 90k:51010
- Quadratic quaternary rings with valuation and affine buildings of type \tilde{C}_2 . 90d:51009
- Zieschang, Paul-Hermann The nonexistence of certain geometries of type C_3 . 90b:51008

Items with secondary classifications in 51B25

- Brown, Kenneth S. ★ Buildings. 90c:20001
- Dicouzo, V. (with Pasquali Coluzzi, D.) On a class of finite inversive spaces of odd order. I. (Italian summary) 90k:51022
- Fisher, P. H. Extending generalized quadrangles. 90k:51023
- Gel'fand, Bernard Remarques sur les revêtements et quotients de géométries. [Remarks on the coverings and quotients of geometries] 90c:51008
- Heiss, Stefan Extensions of the chamber system of type A_3 for A_7 . 90g:20070
- Huang, Jian Hua (with Li, Hui Ling) Buildings, amalgams and incidence geometries. I. BN -pairs and amalgams. (Chinese. English summary) 90k:20028
- Ivanov, Aleksandr Anatol'evich (with Shpektorov, S. V.) Geometries for sporadic groups related to the Petersen graph. II. 90k:20021
- Li, Hui Ling see Huang, Jian Hua, 90k:20028
- Lunardon, Guglielmo (with Pasini, Antonio) A result on C_3 -geometries. 90m:51002
- Meyer, Werner see Neutsch, Wolfram, 90c:20029
- Neutsch, Wolfram (with Meyer, Werner) A root system for the Lyons group. 90c:20029
- Pasini, Antonio see Lunardon, Guglielmo, 90m:51002
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- Ronan, M. A. ★ Lectures on buildings. 90j:20001
- Shpektorov, S. V. see Ivanov, Aleksandr Anatol'evich, 90k:20021
- Timmesfeld, F. G. Classical locally finite Tits chamber systems of rank 3. 90i:20038
- Van der Jeugt, J. A symmetric basis for the E_6 root system. 90j:17050

51B99 None of the above, but in this section

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- Bariotti, Adriano (with Strambach, Karl) The geometry of double loops. 90h:51019
- Strambach, Karl see Bariotti, Adriano, 90h:51019

51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

- Baker, C. A. (with Lane, N. D.; Lorimer, J. W.) An affine characterization of Moufang projective Klingenberg planes. 90k:51011
- Faulkner, John R. Barbilian planes. 90f:51006
- Hanssens, G. (with Van Maldeghem, H.) A universal construction for projective Hjelmslev planes of level n . 90j:51006
- (with Van Maldeghem, H.) A note on near-Barbilian planes. 90f:51007
- (with Van Maldeghem, H.) On projective Hjelmslev planes of level n . 90j:51007
- James, Donald G. Projective geometry over rings with stable range condition. 90f:51008
- Keppens, Dirk Coordinatization of projective Klingenberg planes. I. Introduction of coordinates and planar sexternary rings. 90c:51010
- Coordinatization of projective Klingenberg planes. II. Connections between geometric properties of a PK-plane and algebraic properties of a coordinatizing PSR. 90c:51011
- Neighbor-preserving epimorphisms between projective Klingenberg planes. 90d:51010
- Distant-preserving epimorphisms between projective Klingenberg planes. 90d:51011
- Lane, N. D. see Baker, C. A.; et al., 90k:51011
- Lorimer, J. W. see Baker, C. A.; et al., 90k:51011
- Van Maldeghem, H. see Hanssens, G., 90f:51007; 90j:51006 and 90j:51007

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- Eliseev, E. M. Desarguesian theorems and their connection with collineations of a Hjelmslev projective plane. (Russian) (see 90k:51002)
- Jungnickel, Dieter A family of relative difference sets associated with Hjelmslev structures over finite projective spaces. 90g:05044

51Dxx Geometric closure systems

51D10 Abstract geometries with exchange axiom

Items with secondary classifications in 51D10

- Halsey, Mark D. Extending a combinatorial geometry by adding a unique line. 90c:51011

51D15 Abstract geometries with parallelism

- Prażmowska, Małgorzata (with Prażmowski, Krzysztof) An axiom system describing degenerate hyperbolic planes in terms of directed parallelity. 90b:51009
- Prażmowski, Krzysztof see Prażmowska, Małgorzata, 90b:51009

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- Halsey, Mark D. Extending a combinatorial geometry by adding a unique line. 90c:51011
- Lenz, Hanfried Zur Begründung der affinen Geometrie des Raumes. [Foundation of the affine geometry of space] 90h:51007

51D20 Combinatorial geometries [see also 05B25]

- Bichara, Alessandro (with Somma, Clelia) On Schubert manifold associated with a projective space. 90b:51010
- Glynn, David G. Rings of geometries. II. 90c:51012
- Halsey, Mark D. Extending a combinatorial geometry by adding a unique line. 90c:51011
- Lindström, B. On p -polynomial representations of projective geometries in algebraic combinatorial geometries. 90d:51012
- Lunardon, Guglielmo (with Pasini, Antonio) A result on C_3 -geometries. 90m:51002
- Marcu, Danuș On the representations of projective geometries in algebraic combinatorial geometries. 90c:51012
- Medvedev, V. K. An analogue of the ternary for generalized polygons. 90m:51003
- Melone, N. (with Olanda, D.) $\{1, 2\}$ -semi-affine planar spaces. (Italian. English summary) 90a:51008
- Olanda, D. see Melone, N., 90a:51008
- Pasini, Antonio see Lunardon, Guglielmo, 90m:51002
- Smith, Stephen D. A geometric condition for incidence-matrix nullvectors. 90d:51013
- Somma, Clelia see Bichara, Alessandro, 90b:51010
- Whittle, Geoff Dowling group geometries and the critical problem. 90g:51008

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- Blokhuis, A. (with Wilbrink, H. A.) Characterization theorems for Zeta graphs. 90c:05047
- Ivanov, Aleksandr Anatol'evich Distance-transitive graphs that admit elations. (Russian) 90m:05063
- Kung, Joseph P. S. (with Oxley, James G.) Combinatorial geometries representable over $GF(3)$ and $GF(q)$. II. Dowling geometries. 90i:05029
- Combinatorial geometries representable over $GF(3)$ and $GF(q)$. I. The number of points. 90i:05028
- Oxley, James G. see Kung, Joseph P. S., 90i:05029
- Ronan, M. A. (with Smith, Stephen D.) Computation of 2-modular sheaves and representations for $L_4(2)$, A_7 , $3S_6$, and M_{24} . 90c:20020
- Smith, Stephen D. see Ronan, M. A., 90c:20020
- Stroth, G. The nonexistence of certain Tits geometries with affine diagram. 90g:20028
- Timmesfeld, F. G. Classical locally finite Tits chamber systems of rank 3. 90i:20038
- Ustimenko, V. A. Groups, quasigroups and Tits geometries. (Russian) 90m:20046
- Van Maldeghem, H. Quadratic quaternary rings with valuation and affine buildings of type C_2 . 90d:51009
- Wilbrink, H. A. see Blokhuis, A., 90c:05047
- Zieschang, Paul-Hermann The nonexistence of certain geometries of type C_3 . 90b:51008

51D25 Lattices of subspaces [see also 05B35]

- Schmidt, Stefan E. Spaces of type n on partially ordered sets. 90f:51009

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- Zeev, Yu. A. Asymptotics of the logarithm of the number of Boolean threshold functions. 90h:04075

51D99 None of the above, but in this section

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- Strantzen, J. B. Infinite dimensions for ordered incidence geometry. 90k:51003

51Exx Finite geometry

51E05 General block designs [see also 05B05]

- Berardi, Laigla A 3-design associated with an n -spread of $PG(2n+1, q)$. (Italian. English summary) 90d:51014
- Lenz, Hanfried Variations on the projective plane of order four. 90i:51006
- Rajala, Sandro Some linear spaces with lines of two lengths. 90i:51007

Tallini, G. Geometric spaces and associated linear codes. (Italian. English summary) 90k:51012

Wei, Wan Di. *see* Yang, Ben Fu, 90k:51010

Yang, Ben Fu (with Wei, Wan Di) Orthogonal geometries over finite fields with characteristic $\neq 2$ and block designs. 90k:51010

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Bannai, Eichi (with Hoggar, S. G.) Tight t -designs and squarefree integers. 90d:05055

Berardi, Laila Blocking sets in the large Mathieu designs. II. The case $S(4, 7, 23)$. 90c:05017

Black, S. C. (with List, R. J.) On certain abelian groups associated with finite projective geometries. 90m:05033

Boros, Endre (with Füredi, Zoltán; Kelly, L. M.) On representing Sylvester-Gallai designs. 90g:05031

Brown, A. A. Kummer configurations and designs embedded in planes. 90g:51013

Buratti, Marco Bruck-Ryser abstract theorem and symmetric designs. 90c:05019

Füredi, Zoltán *see* Boros, Endre; et al., 90g:05031

Hoggar, S. G. Tight 4- and 5-designs in projective spaces. 90d:05056

— *see also* Bannai, Eichi, 90d:05055

Kelly, L. M. *see* Boros, Endre; et al., 90g:05031

Key, J. D. (with Rostom, N. K. A.) A characterization of some finite inverse planes. 90c:51009

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Marron, V. C. *see* McDonough, T. P., 90g:05041

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van Oorschot, P. C. (with Vanstone, S. A.) A geometric approach to root finding in $GF(q^m)$. 90c:11184

Rabilly, Alan Embeddings of maximal arc type in finite projective planes. 90j:51005

Rostom, N. K. A. *see* Key, J. D., 90c:51009

Shen, Hao Finite geometries and the construction of BIB designs. (Chinese) 90f:05019

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de Vito, Paola (with Lo Re, Pia Maria) Quasi-symmetric (δ, μ) -biplanes. 90h:05034

51E10 Steiner systems

Batten, Lynn Margaret Translation triple systems. 90i:51008

Di Paola, Jane W. (with Gropp, Harald) Hyperbolic graphs from hyperbolic planes. 90c:51013

Gropp, Harald *see* Di Paola, Jane W., 90c:51013

Migliori, Grazia Sets of type $(0, 2, q/2)$ in a projective plane and Steiner triple system. (Italian. English summary) 90h:51011

Zeidler, Herbert Miszellen zum Thema Ovale in Steiner-Tripel-Systemen. [Miscellaneous on the topic of ovals in Steiner triple systems] 90c:51014

— Nochmals: Hyperovals in Steiner-Tripel-Systemen. [Hyperovals in Steiner triple systems revisited] 90c:51013

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Eagen, Franco (with Gionfriddo, Mario) On the minimum number of blocks of a maximal partial spread in $STS(v)$ and $SQS(v)$. 90f:05015

Gionfriddo, Mario *see* Eagen, Franco, 90f:05015

Haas, Z. Intersection of the Steiner systems of M_{24} . 90j:05031

Kramer, Earl S. (with Magliveras, Spyros S.; Mathon, R.) The Steiner systems $S(2, 4, 25)$ with nontrivial automorphism group. 90k:05028

Magliveras, Spyros S. *see* Kramer, Earl S.; et al., 90k:05028

Mathon, R. *see* Kramer, Earl S.; et al., 90k:05028

de Resmini, Marieluiza J. On complete arcs in Steiner systems $S(2, 3, v)$ and $S(2, 4, v)$. 90j:05045

51E15 Affine and projective planes

Arasu, K. T. Cyclic affine planes of even order. 90g:51009

Assmus, E. F., Jr. The coding theory of finite geometries and designs. 90f:51010

Bachmann, Otto Über projektive Ebenen, die fast fahnen transitiv sind. (English summary) [On projective planes which are almost flag transitive] 90d:51015

Beutelspacher, A. (with Vedder, Klaus) Geometric structures as threshold schemes. 90k:51013

Bichara, Alessandro An elementary proof of the nonexistence of a projective plane of order six. 90g:51010

Evans, Anthony B. On planes of prime order with translations and homologies. 90c:51015

Felt, Walter Finite projective planes and a question about primes. 90c:51016

Hiramine, Yutaka A conjecture on affine planes of prime order. 90g:51011

Ho, Chat Y. On multiplier groups of finite cyclic planes. 90c:51017

Jha, Vikram (with Johnson, Norman Lloyd¹) An analog of the Albert-Knuth theorem on the orders of finite semifields, and a complete solution to Cofman's subplane problem. 90i:51009

Johnson, Norman Lloyd¹ (with Pomareda, Rolando) André planes and nests of reguli. 90k:51014

— A characterization of the Hall planes by planar and nonplanar involutions. 90i:51010

— Semifield planes of characteristic p admitting p -primitive Baer collineations. 90h:51012

— *see also* Jha, Vikram, 90i:51009

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Kilmer, Dirk Über die Projektivitätengruppen von Semikörperebenen gerader Ordnung. (English summary) [On the groups of projectivities of semifields of even order] 90f:51011

Kuppuswamy Rao, K. Finite translation planes. 90i:51011

— *see also* Narayana Rao, M. L.; et al., 90i:51012

Lam, C. W. H. (with Thiel, Larry Henry; Swiercz, S.) The nonexistence of finite projective planes of order 10. 90j:51008

Maurras, Jean-François More on the plane of order 10. (French summary) 90j:51009

Moorhouse, G. Eric $PSL(2, q)$ as a collineation group of projective planes of small order. 90h:51013

Narayana Rao, M. L. (with Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 49 with 48 ideal points in a single orbit. 90i:51012

Pomareda, Rolando *see* Johnson, Norman Lloyd¹, 90k:51014

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Vedder, Klaus *see* Beutelspacher, A., 90k:51013

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Arasu, K. T. Abelian projective planes of square order. 90m:05029

Bhattarai, Hom Nath Pasch geometric spaces inducing finite projective planes. 90c:51002

Billotti, Mauro (with Jha, Vikram; Johnson, Norman Lloyd¹; Menichetti, Giampaolo) A structure theory for two-dimensional translation planes of order q^2 that admit collineation groups of order q^2 . 90a:51006

— (with Korchmáros, Gábor) Collineation groups preserving a unit of a projective plane of odd order. 90i:20005

Brunaldi, Richard A. (with Pless, Vera S.; Wilson, Richard M.) Short codes with a given covering radius. 90g:94016

Cameron, Peter J. (with Mazzocca, Francesco; Meshulam, Roy) Dual blocking sets in projective and affine planes. 90a:51011

Durgaprasad, K. V. *see* Narayana Rao, M. L.; et al., 90i:51004

Evans, Anthony B. Orthomorphism graphs of groups. 90d:51005

Hayden, John L. Elementary abelian Cartesian groups. 90d:20094

Jamison, R. E. On the edge chromatic numbers of complete graphs. 90c:05087

Jha, Vikram (with Johnson, Norman Lloyd¹) A characterization of some spreads of order q^2 that admit $GL(2, q)$ as a collineation group. 90a:51007

— *see also* Billotti, Mauro; et al., 90a:51006

Johnson, Norman Lloyd¹ On derivable Baer-elation planes. 90g:51005

— Sequences of derivable translation planes. 90c:51007

— Nest replaceable translation planes. 90k:51006

— The derivation of dual translation planes. 90k:51007

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Korchmáros, Gábor Cyclic one-factorization with an invariant one-factor of the complete graph. 90f:05108

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Meshulam, Roy *see* Cameron, Peter J.; et al., 90a:51011

Narayana Rao, M. L. (with Kuppuswamy Rao, K.; Durgaprasad, K. V.) A class of d -dimensional flag transitive translation planes. 90f:51004

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Podufalov, N. D. (γ, γ) -transitive finite projective planes. (Russian) 90g:51006

Schmeichel, E. F. On the cycle structure of finite projective planes. 90g:05056

Safiny, Tamás Arcs and k -sets with large nucleus-set in Hall planes. 90d:51018

Vasis, Angela On the semi-isometries of a Galois plane defined over a field $K = GF(p^2)$. 90g:51020

Weida, Richard A. An extension of Bruen chains. 90d:51019

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51E20 Combinatorial structures in finite projective spaces

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Abatangelo, Vito (with Larato, Bambina) A characterization of Denniston's maximal arcs. 90c:51018

Assmus, E. F., Jr. (with Key, J. D.) Arcs and ovals in the Hermitian and Ree unitals. 90g:51012

Bader, Laura (with Lunardon, Guglielmo) On the flocks of $Q^+(3, q)$. 90c:51019

Bagchi, Bhaskar (with Narasimha Sastry, N. S.) Intersection pattern of the classical ovoids in symplectic 3-space of even order. 90k:51015

Beutelspacher, A. (with Eugeni, Franco) On blocking sets in projective and affine spaces of large order. 90h:51011

Blokhuis, A. (with Brouwer, A. E.; Wilbrink, H. A.) Heden's bound on maximal partial spreads. 90h:51014

— (with Bruen, A. A.) The minimal number of lines intersected by a set of $q + 2$ points, blocking sets, and intersecting circles. 90a:51009

— *see also* Bruen, A. A.; et al., 90a:51010; 90f:51012 and 90f:51013

Brouwer, A. E. *see* Blokhuis, A.; et al., 90h:51014

Brown, Julia M. Nowlin Partitioning the complement of a simplex in $PG(e, q^{d+1})$ into copies of $PG(d, q)$. 90c:51020

Bruen, A. A. (with Thas, J. A.; Blokhuis, A.) M.D.S. codes and arcs in projective space. I. 90f:51012

— (with Thas, J. A.; Blokhuis, A.) M.D.S. codes and arcs in projective space. II. 90f:51013

— (with Thas, J. A.; Blokhuis, A.) On M.D.S. codes, arcs in $PG(n, q)$ with q even, and a solution of three fundamental problems of B. Segre. 90a:51010

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Cameron, Peter J. (with Mazzocca, Francesco; Meshulam, Roy) Dual blocking sets in projective and affine planes. 90a:51011

Cherowitz, William E. Ovals in Figueroa planes. 90k:51016

Ebert, G. L. Spreads admitting regular elliptic covers. 90i:51013

Eugeni, Franco *see* Beutelspacher, A., 90h:51011

Faina, Giorgio Complete caps having less than $(q^2 + 1)/2$ points in common with an elliptic quadric of $PG(3, q)$, q odd. (Italian summary) 90f:51014

Glynn, David G. A condition for the existence of ovals in $PG(2, q)$, q even. 90k:51017

Hamada, Noboru Characterization of $((q + 1) + 2, 1; t, q)$ -min.hypers and $(2(q + 1) + 2, 2, q)$ -min.hypers in a finite projective geometry. 90c:51021

- Johnson, Norman Lloyd¹ Flocks of hyperbolic quadrics and translation planes admitting affine homologies. 90c:51014
- Johnson, Peter Malcolm (with Shult, Ernest) Local characterizations of polar spaces. 90c:51022
- Jungnickel, Dieter Some self-blocking block designs. 90k:51019
- Partial spreads over Z_q . 90k:51018
- Keevill, A. D. A theorem concerning the embedding of graphic arcs in algebraic plane curves. 90j:51010
- Kestenband, Barba C. Partitions of Desarguesian and Hughes planes into complete and incomplete arcs. 90i:51014
- Key, J. D. see Assmus, E. F., Jr., 90g:51012
- Kitts, Cyrus A bound for blocking sets of Rédei type in finite projective planes. 90b:51012
- Larato, Bambina see Abatangelo, Vito, 90c:51018
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- Meshulam, Roy see Cameron, Peter J., et al., 90a:51011
- Narasimha Sastry, N. S. see Bagchi, Bhaskar, 90k:51015
- O'Keefe, Christine M. Regularity of 1-spreads of PG(2s + 1, q). 90d:51016
- Pickert, Günter Differenzmengen und Ovale. (English summary) [Difference sets and ovals] 90j:51011
- Procesi, Claudi, R. (with Rota, R.) A k set of type (0, 4, 6) in PG(2, 8). 90d:51017
- Rota, R. see Procesi, Claudi, R., 90d:51017
- Shult, Ernest see Johnson, Peter Malcolm, 90c:51022
- Sabry, Tamas Arcs and k-sets with large nucleus-set in Hall planes. 90d:51018
- Tallini, G. Sets of lines of even type in a Galois space PG(3, q). (Italian. English summary) 90g:51014
- On blocking sets in finite projective and affine spaces. 90b:51013
- Thas, J. A. A note on spreads and partial spreads of Hermitian varieties. 90k:51020
- see also Bruen, A. A.; et al., 90a:51010; 90c:51012 and 90c:51013
- Wei, Wan Di see Yang, Ben Fu, 90k:51021
- Weida, Richard A. An extension of Bruen chains. 90d:51019
- Whittle, Geoff q-lifts of tangential k-blocks. 90d:51020
- Wilbrink, H. A. see Blokhuis, A.; et al., 90h:51014
- Yang, Ben Fu (with Wei, Wan Di) Finite unitary geometry and PBIB designs. I. 90k:51021
- Items with secondary classifications in 51E20
- Batten, Lynn Margaret Translation triple systems. 90i:51008
- Berardi, Laila A 3-design associated with an n-spread of PG(2n + 1, q). (Italian. English summary) 90d:51014
- Constructing 3-designs from spreads and lines. 90d:5031
- Beutelspacher, A. (with Jungnickel, Dieter; Vanstone, S. A.) On the chromatic index of a finite projective space. 90m:5032
- Boros, Endre (with Füredi, Zoltán; Kahn, Jeffrey N.) Maximal intersecting families and affine regular polygons in PG(2, q). 90g:5004
- Dicenzo, V. (with Pasquali Coluzzi, D.) On a class of finite inversive spaces of odd order. I. (Italian summary) 90k:51022
- Füredi, Zoltán A projective plane is an outstanding 2-cover. 90c:5059
- Covering the complete graph by partitions. 90c:5166
- see also Boros, Endre; et al., 90g:5004
- Herzer, A. Generalized Segre varieties. (Italian) 90b:51005
- Johnson, Norman Lloyd¹ On derivable Baer-coset planes. 90g:51005
- Nest replaceable translation planes. 90k:51006
- The derivation of dual translation planes. 90k:51007
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- Kung, Joseph P. S. (with Oxley, James G.) Combinatorial geometries representable over GF(3) and GF(q). II. Dowling geometries. 90i:5029
- Lord, Eric A. Geometry of the Mathieu groups and Golay codes. 90g:11168
- Maurras, Jean-François More on the plane of order 10. (French summary) 90j:51009
- Melone, N. (with Olanda, D.) (1, 2)-semi-affine planar spaces. (Italian. English summary) 90a:51008
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- Oxley, James G. see Kung, Joseph P. S., 90i:5029
- Pasquali Coluzzi, D. see Dicenzo, V., 90k:51022
- Salzberg, Pablo M. Tomography in projective spaces: a heuristic for limited angle reconstructive models. 90f:68173
- Vanstone, S. A. see Beutelspacher, A.; et al., 90m:5032
- Wei, Wan Di see Yang, Ben Fu, 90k:51021
- Whittle, Geoff Dowling group geometries and the critical problem. 90g:51008
- Yang, Ben Fu (with Wei, Wan Di) Orthogonal geometries over finite fields with characteristic $\neq 2$ and block designs. 90h:51010

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- Bonisoli, Arrigo On resolvable finite Minkowski planes. 90j:51012
- Dicenzo, V. (with Pasquali Coluzzi, D.) On a class of finite inversive spaces of odd order. I. (Italian summary) 90k:51022
- Fisher, P. H. (with Penttilä, Tim; Praeger, Cheryl E.; Royle, Gordon F.) Inverse planes of odd order. 90c:51023
- Extending generalized quadrangles. 90k:51023
- Hanssens, G. (with Van Maldeghem, H.) Algebraic properties of quadratic quaternary rings. 90d:51021

- Jakobowski, Jan Conjugate points of a translation plane of order 9 and its extensibility to a Minkowski plane. 90b:51014
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- Rinaldi, Gloria Minkowski semiplanes. 90j:51013
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- Royle, Gordon F. see Fisher, P. H.; et al., 90c:51023
- Shult, Ernest Nonexistence of ovoids in $\Omega^+(10, 3)$. 90c:51015
- Thas, J. A. Interesting pointsets in generalized quadrangles and partial geometries. 90b:51015
- Van Maldeghem, H. see Hanssens, G., 90d:51021
- Items with secondary classifications in 51E25
- Cohen, Arjeh M. (with Cooperstein, Bruce N.) On the local recognition of finite metasymplectic spaces. 90k:51009
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- Lunardon, Guglielmo (with Pasini, Antonio) A result on C_3 -geometries. 90m:51002
- Pasini, Antonio On a theorem by Aschbacher. 90b:51007
- see also Lunardon, Guglielmo, 90m:51002

51E30 Other finite incidence structures [see also 05B30]

- Damerell, R. M. (with Roos, C.; van Zanten, A. J.) On the existence of certain generalized Moore geometries. V. 90g:51015
- Gevaert, Hans Regularity conditions on the transversals of lines in a partial geometry. 90g:51016
- Libicher, Jaroslav Classification of incidence structures with similarity relation. (Czech summary) 90a:51012
- Lozanov, Chavdar see Russeva, Assia P., 90g:51017
- Mendelsohn, N. S. (with Padmanabhan, R.; Wolk, B.) Planar projective configurations. I. 90h:51015
- (with Padmanabhan, R.; Wolk, B.) Designs embeddable in a plane cubic curve. (Part 2 of Planar projective configurations). 90h:51016
- Padmanabhan, R. see Mendelsohn, N. S.; et al., 90h:51015 and 90h:51016
- Pasini, Antonio On finite geometries of type C_3 with thick lines. 90i:51015
- Roos, C. see Damerell, R. M.; et al., 90g:51015
- Russeva, Assia P. (with Lozanov, Chavdar) On the geometry of a cyclic subgroup of the Suzuki group Sz(8). (Bulgarian summary) 90g:51017
- Wolk, B. see Mendelsohn, N. S.; et al., 90h:51015 and 90h:51016
- van Zanten, A. J. see Damerell, R. M.; et al., 90g:51015
- Items with secondary classifications in 51E30
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- Cooperstein, Bruce N. A finite flag-transitive geometry of extended G_2 -type. 90h:51009
- Faina, Giorgio (with Korchmáros, Gábor) On sharply 3-transitive permutation sets. 90i:20004
- Ivanov, Aleksandr Anatol'evich (with Muzichuk, M. E.; Ustimenko, V. A.) On a new family of $(P$ and Q)-polynomial schemes. 90k:05044
- Korchmáros, Gábor see Faina, Giorgio, 90i:20004
- Kreuzer, Alexander Klassifizierung endlicher halbgeordneter Ebenen. (English summary) [Classification of finite partially ordered planes] 90j:51016
- Zur Einbettung von Inzidenzräumen und angeordneten Räumen. (English summary) [On the embedding of incidence spaces and ordered spaces] 90j:51017
- Li, Hui Ling On basis-transitive geometric lattices. 90k:05051
- Liebler, Robert A. Tactical configurations and their generic ring. 90k:05057
- Muzichuk, M. E. see Ivanov, Aleksandr Anatol'evich; et al., 90k:05044
- Narayana Rao, M. L. (with Satyanarayana, K.; Vithal Rao, G.) On a class of derived translation planes of square order. 90c:51008
- Perkel, Manley Near-polygonal graphs. 90h:05066
- Satyanarayana, K. see Narayana Rao, M. L.; et al., 90c:51008
- Somma, Clelia see Bichara, Alessandro, 90c:51006
- Tallini, G. Geometric spaces and associated linear codes. (Italian. English summary) 90k:20012
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- Yoshiara, Satoshi Some geometries for J_3 and $O'N$. 90j:20031
- On the geometry of the Hall-Janko group on 315 points. 90m:20020
- Zeidler, Herbert A geometrical classification of finite (K, R) -planes. 90i:51005

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- Aloa, Noga (with Füredi, Zoltán) Legitimate colorings of projective planes. 90d:05054
- Bier, T. (with Chua, P. K.) Numerical invariants of strongly regular graphs. 90a:05174
- Camina, Alan (with Simons, Johannes) Intertwining automorphisms in finite incidence structures. 90b:20003
- Chua, P. K. see Bier, T., 90a:05174
- Füredi, Zoltán see Aloa, Noga, 90d:05054
- Glynn, David G. Rings of geometries. II. 90c:51012
- Simons, Johannes see Camina, Alan, 90b:20003

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51F10 Absolute spaces

- Ljubić, Dragoslav Bireflectionality in absolute geometry. 90d:51022

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51F15 Reflection groups, reflection geometries [see also 20H10, 20H15]

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(Götzky, K. Martin) *see* Bachmann, Friedrich, 90b:51017

Ignatenko, V. F. Invariants of a group that is generated by oblique reflections in E^{11} . (Russian) 90c:51013

Molnár, Emil (with Prok, István) A polyhedron algorithm for finding space groups. 90g:51018

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Seppälä, Mika (with Sorvali, Tuomas) Parametrization of reflection groups acting in a disk. 90b:51016

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Struve, Horst (with Struve, Rolf) Coeuklidische Hjelmslevgruppen. (English summary)

[Co-Euclidean Hjelmslev groups] 90b:51016

Struve, Rolf *see* Struve, Horst, 90b:51016

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Zheludev, I. S. Space and time symmetry. 90b:51016

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Bokhina, A. P. On the centralizer of a Coxeter element. (Russian) 90k:20064

Cartier, Pierre Classification des systèmes quasi cristallins de type icosaédrique. (English summary) [Classification of icosahedral quasicrystalline systems] 90d:82030

Castro, Sergio Miquelische Minkowski-Ebenen in Spiegelungsgeometrischer Darstellung.

[Miquelian Minkowski planes in reflection-geometric representation] 90d:51008

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Fischer, Werner (with Koch, Elke) Genera of minimal balance surfaces. 90i:53009

Fortes, M. A. (with Andrade, P. N.) The arrangement of cells in 3- and 4-regular planar networks formed by random straight lines. (French summary) 90j:52010

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Hagige, S. (with Nouet, G.) Géométrie des relations d'orientation dans la symétrie hexagonale. Dimension de la coïncidence. (English summary) [Geometry of orientation relations in hexagonal symmetry. Coincidence dimension] 90b:82050

Ignatenko, V. F. Some classes of algebraic surfaces with an infinite set of planes of oblique symmetry. (Russian) 90g:53006

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Lauch, Hubert Automorphisms of Cayley algebras over finite fields. 90b:17001

Ijähle, Dragoslav Bireflectionality in absolute geometry. 90d:51022

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(Pólya, George) *see* Schattschneider, Doris, 90b:01054

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— *see also* Wyss, R., 90a:51027b

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51F20 Congruence and orthogonality [see also 20H05]

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García Roig, J.-L. (with Alsinia, Claudio) On continuous preservation of norms and areas. 90k:51025

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Lettrich, Jaroslav (with Kostrová, Jela) One spatial closure condition of orthogonality. 90g:51019

Radó, F. On the semi-isometries of metric vector spaces. 90d:51024

Vaslu, Angela On the semi-isometries of a Galois plane defined over a field $K = GF(p^2)$. 90g:51020

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Brauner, Heinrich Eine Kennzeichnung der Ähnlichkeiten affiner Räume mit definierter Orthogonalitätsstruktur. [A characterization of the similarities of affine spaces with definite orthogonality structure] 90c:51003

Goldblatt, Robert First-order spacetime geometry. 90m:51001

Kusak, Eugeniusz Orthogonality relations on projective planes. 90f:51001

51F25 Orthogonal and unitary groups [see also 20H05]

Items with secondary classifications in 51F25

Radó, F. On the semi-isometries of metric vector spaces. 90d:51024

Struve, Horst (with Struve, Rolf) Coeuklidische Hjelmslevgruppen. (English summary) [Co-Euclidean Hjelmslev groups] 90b:51016

Struve, Rolf *see* Struve, Horst, 90b:51016

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Alpers, Burkhard Zum Transitivitätsverhalten metrischer Kollineationsgruppen. (English summary) [On the transitivity behavior of metric collineation groups] 90b:51017

— Eine Note zur Charakterisierung von Ähnlichkeitsabbildungen. (English summary) [A note on the characterization of similarity mappings] 90d:51025

— A note on small similarity groups. 90d:51026

Kalman, Dan The axis of a rotation: analysis, algebra, geometry. 90j:51015

Koshelov, V. N. The computational aspect of the triangle axiom. (Russian) 90c:51015

Prażmowski, Krzysztof On the geometry of oriented hyperplanes in multidimensional metric-projective spaces. 90b:51017

Ruban, A. A. Minkowski spaces with a nontrivial group of isometries make up a nowhere dense set. 90k:51026

Vedernikov, S. V. (with Zaripov, E. Sh.) Geometry of a group of non-Euclidean motions. (Russian) 90d:51027

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characterization of Euclidean norms in finite dimension] 90c:46030

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Ulan, Janex On a class of (N, n, E) -nets with $(n + 1)$ -distance. (Russian) 90m:20083

51G05 Ordered geometries (ordered incidence structures, etc.)

Kalhoff, Franz Über Stellen und Priordnungen von Ternärkörpern. (English summary) [On places and preorders of ternary fields] 90a:51014

— Halbordnungen und Epimorphismen projektiver Ebenen. (English summary) [Semi-

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Kreuzer, Alexander Klassifizierung endlicher halbgeordneter Ebenen. (English summary)

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— Zur Einbettung von Inzidenzräumen und angeordneten Räumen. (English summary) [On the embedding of incidence spaces and ordered spaces] 90j:51017

— Halbgeordnete Ebenen. [Partially ordered planes] 90b:51018

Liebold, F. (with Priess-Crampe, S.) Uniformitäten angeordneter projektiver Ebenen.

[Uniformities of ordered projective planes] 90b:51027

Priess-Crampe, S. *see* Liebold, F., 90b:51027

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Goldblatt, Robert First-order spacetime geometry. 90m:51001

Pambuccian, Victor Ternary operations as primitive notions for constructive plane geometry. 90m:03104

51Hxx Topological geometry

51H10 Topological linear incidence structures

Misfeld, J. (with Tallini, G.; Zanella, C.) Topological Grassmann spaces. (Italian summary) 90m:51004

Salzmann, Helmut Compact 8-dimensional projective planes. 90k:51028

Szambien, Horst Minimal topological projective planes. 90g:51021

Tallini, G. *see* Misfeld, J., et al., 90m:51004

Zanella, C. *see* Misfeld, J., et al., 90m:51004

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Timoshenko, T. A. *see* Rosenfeld, B. A.; et al., 90c:22050

Zamakhovskii, M. P. *see* Rosenfeld, B. A.; et al., 90c:22050

51H15 Topological nonlinear incidence structures

Bariotti, Adriano (with Strambach, Karl) The geometry of double loops. 90b:51019

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51H20 Topological geometries on manifolds [see also 57-XX]

Billinski, S. Die windschiefen Archimedischen Polyeder höheren Geschlechtes. [The skew Archimedean polyhedra of higher genus] 90c:51024

Eftremovich, V. A. Qualitative properties of figures. 90b:51020

51H25 Geometries with differentiable structure [see also 53Cxx, 53C70]

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51H30 Geometries with algebraic manifold structure [see also 14-XX]

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51Jxx Incidence groups

51J10 Projective incidence groups

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Johnson, Norman Lloyd¹ (with Pomareda, Rolando) André planes and nests of reguli. 90k:51014

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51J15 Kinematic spaces

Karzel, Helmut Porous double spaces. 90g:51022

— Affine double spaces of order 3. 90c:51016

51J20 Representation by near-fields and near-algebras [see also 12K05, 16A76]

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Lettrich, Jaroslav Translation structures. III. Translation structures over a nonplanar near-field. (Slovak. English, German and Russian summaries) 90c:51005b

Pomareda, Rolando *see* Johnson, Norman Lloyd¹, 90k:51014

Wähling, Heinz *★* Theorie der Fastkörper. (German) [Theory of nearfields] 90c:12024

51Kxx Distance geometry

51K05 General theory

Avis, David (with Mutt) All the facets of the six-point Hamming cone. 90f:51017

Deza, M. (with Machara, Hiroshi) Metric transforms and Euclidean embeddings. 90c:51025

Herbert, Irmina Some remarks on the completion of uniformly geometrically acceptable spaces. (Russian summary) 90c:51018

Kane, Seymour Spaces of closest fit. 90f:51018

Machara, Hiroshi *see* Deza, M., 90c:51025

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Crippen, Gordon M. (with Havel, T. F.) *★* Distance geometry and molecular conformation. 90a:92082

Havel, T. F. *see* Crippen, Gordon M., 90a:92082

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51K10 Synthetic differential geometry

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Jasinski, R. (with Yuille, A.) Nonrigid motion and Regge calculus. 90k:92081

Je, Man Il On the equi-distance elements and some properties of them. (Korean. English summary) 90m:90305

Whiteley, Walter Infinitesimally rigid polyhedra. II. Modified spherical frameworks. 90a:52014

Yuille, A. *see* Jasinski, R., 90k:92081

51Lxx Geometric order structures [see also 53C75]

51L15 n -vertex theorems via direct methods

Bisztriczky, T. Convex sets and plane curve singularities. 90b:51021

El-Ghoul, M. The four-or-more vertex theorem and realization. 90g:51023

Nöbeling, Georg Über die Anzahl der ordnungsgemäßen Scheitel von Kurven. II. Verallgemeinerungen des Vier-Scheitel-Satzes. [On the number of order-geometric vertices of curves. II. Generalizations of the four-vertex theorem] 90b:51018

Spear, G. A conformal proof of a generalized four-vertex theorem. (Italian summary) 90a:51026

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Rodrigues Costa, Suelli I. On closed twisted curves. 90b:53089

51Mxx Real and complex geometry

Items with secondary classifications in 51Mxx

Pedoe, Dan *★* Geometry. 90k:51001

51M05 Euclidean geometries

Agrawal, M. K. *see* Parnami, J. C.; et al., 90d:51030

Billir, Servettin A remark to: "Graves triads in the geometry of the triangle" [J. Geometry 6 (1975), no. 2, 131–142; MR 52 #4096] by A. P. Guinand. 90f:51019

Bottema, O. (with Eddy, R. H.) Inequalities for the Nagel transversals. 90k:51029

Demir, Hüseyin (with Tezer, Cem) More on incircles. 90c:51017

Deuchner, Stefan Steiner's Satz über die kopunktalen Seitensenkrechten des Dreiecks im Geometrieunterricht. [Steiner's theorem on concurrent perpendiculars of a triangle in the teaching of geometry] 90f:51020

Dye, R. H. The parabola as the envelope of a set of oblique Simson lines of a triangle. 90c:51018

Eddy, R. H. A Desarguesian dual for Nagel's middlespoint. 90f:51021

— *see also* Bottema, O., 90k:51029

Gallarati, Dionisio Gems of Euclidean geometry. (Italian) 90f:51022

(Guinand, A. P.) *see* Billir, Servettin, 90f:51019

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Hsü, Chün Jung On Simson lines in the sense of Langley. 90d:51029

Iacob, Călin Sur un théorème de D. Pompeiu et quelques-unes de ses généralisations. [On a theorem of D. Pompeiu and some of its generalizations] 90c:51019

Kulshrestha, D. K. (with Sag, T. W.) Symmetric k -ellipses with limiting eccentricity. 90c:51030

Landy, Steven A generalization of Ceva's theorem to higher dimensions. 90c:51020

Lia, Shwu-Yeng T. (with Lin, You Feng) The n -dimensional Pythagorean theorem. 90k:51031

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Mao, Qi Ji An extension of Ceva's theorem to higher dimensions. (Chinese) 90a:51015

Ogawa, Tsyuyoshi Comments to the late Professor Emeritus Ozeki's miscellaneous problems in elementary mathematics. (Japanese. English summary) 90h:51019

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Parnami, J. C. (with Agrawal, M. K.; Rajwade, A. R.) Triangles and cyclic quadrilaterals, with angles that are rational multiples of π and sides at most quadratic over the rationals. 90d:51030

Rajwade, A. R. *see* Parnami, J. C.; et al., 90d:51030

Sag, T. W. *see* Kulshrestha, D. K., 90k:51030

Satyanarayana, K. The tetrahedron the feet of whose altitudes are coplanar. 90a:51016

Shizale, Andrzej Some remarks on perpendicular projection. 90f:51023

Stürk, R. Eine weitere Lösung der Thébault'schen Aufgabe. [Another solution of Thébault's problem] 90k:51032

Tezer, Cem *see* Demir, Hüseyin, 90c:51017

Vogt, Otsmar On a family of spheres that are tangent to three given spheres. (Polish. English and Russian summaries) 90b:51022

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Cederberg, Judith N. *★* A course in modern geometries. 90g:51001

Delgado Delgado, Manuel On a problem of Poncelet. (Spanish) 90m:01022

Hunter, Aleck J. (with Kovarik, M.) Integral triangles and circles. 90f:51025

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Lu, Jian Ke A general method for finding the pseudocenter of a point set. (Chinese) 90a:51026

Mägling, Werner Über Trapezen umschriebene rechtwinklige Dreiecke. [On right-angled triangles circumscribing trapezoids] 90k:51039

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Sharygin, I. F. *see* Prasolov, V. V., 90h:51002

Siemon, H. Bemerkung zum Ecken- und Flächenschwerpunkt von Vierecken. [Comment on the center of gravity of the vertices and the centroid of quadrangles] 90g:51035

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51M10 Hyperbolic and elliptic geometries

Bieliński, Andrzej The structure of descriptive geometry of the four-dimensional Lobachevski space. 90g:51024

Fava, Franco Projective metrics and non-Euclidean geometries. (Italian) 90b:51023

Geise, Gerhard Eine weitere Bemerkung zum Schmetterlingsatz. [Another comment on the butterfly theorem] 90k:51033

Lewandowski, Grzegorz (with Prażmowski, Krzysztof) Complex-type description of 3-dimensional hyperbolic geometry. 90f:51024

Monson, Barry (with Tingley, Daryl) Hyperbolic photography. 90g:51025

Mycielski, Jan The Banach-Tarski paradox for the hyperbolic plane. 90h:51020

Orbán, B. (with Tarján, M.) A remarkable cubic line associated to a triangle in the hyperbolic plane. 90g:51026

Prażmowski, Krzysztof Some remarks about geometrical structure of an exterior hyperbolic plane. 90h:51021

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Zeitler, Herbert. Skarries aus der Flora und Fauna hyperbolischer Geometrie. [Amusing facts about the flora and fauna of hyperbolic geometry] 90g:51027

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Beltagy, M. A. (with Affy, R. A.) On Halpern's conjecture in space forms. (Arabic summary) 90d:53004

Birman, Graciela Silvia. A Santalo's formula in L-P. 90d:53006

Cederberg, Judith N. A course in modern geometries. 90g:51001

Debrunner, Hans E. Die Dehn'sche Zerlegungsinvariante für hyperbolische Polyederbausteine. [The Dehn decomposition invariant for hyperbolic polyhedra building blocks] 90i:52024

Iversen, Birger. An invitation to geometry. 90c:51001

Kilmenko, E. Ya. Discrete groups in the three-dimensional Lobachevskii space that are generated by two rotations. 90c:22017

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Prażmowski, Krzysztof. On the geometry of oriented hyperplanes in multidimensional metric-projective spaces. 90b:51017

— *see also* Prażmowska, Małgorzata, 90b:51009

Rosenfeld, B. A. (with Zamakhovskii, M. P.; Timoshenko, T. A.) Parabolic spaces. (Russian) 90c:22050

Seppälä, Mika (with Sorvali, Tuomas) Parametrization of reflection groups acting in a disk. 90f:51016

Sleator, Daniel D. (with Tarjan, Robert E.; Thurston, W. P.) Rotation distance, triangulations, and hyperbolic geometry. 90b:68026

Sorvali, Tuomas. *see* Seppälä, Mika, 90f:51016

Tarjan, Robert E. *see* Sleator, Daniel D.; et al., 90b:68026

Thurston, W. P. *see* Sleator, Daniel D.; et al., 90b:68026

Timoshenko, T. A. *see* Rosenfeld, B. A.; et al., 90c:22050

Zamakhovskii, M. P. *see* Rosenfeld, B. A.; et al., 90c:22050

51M15 Geometric constructions

Boltyanskii, V. G. Rotation and central symmetry. (Russian) 90m:51005

Borut, Stanisław. Construction of a circle that is affine to an ellipse defined by its axes. (Polish. English and Russian summaries) 90a:51017

Coughlin, Mary. The shape of e . 90c:51022

Eckert, Ernest J. (with Vestergaard, Preben Dahl) Groups of integral triangles. 90i:51019

Eddy, R. H. A generalization of Nagel's middlespoint. 90k:51035

Fichtl, X. Comment on: "A theorem on orientation-reversing-similar triangles" [Praxis Math. 29 (1987), no. 2, 115–117; MR 88b:51033] by E. M. Schröder. (German) 90i:51020

Gleason, Andrew M. Addenda: "Angle trisection, the heptagon, and the triskaidecagon" [Amer. Math. Monthly 95 (1988), no. 3, 185–194; MR 89d:51028]. 90c:51023

Górska, Renata. On a construction of conics. (Polish. English and Russian summaries) 90i:51031

Grötz, Wolfgang. Zur algebraischen Kennzeichnung geometrischer Konstruktionen—Ein elementarer Zugang. [On the algebraic characterization of geometric constructions—an elementary approach] 90j:51019

Hunter, Aleck J. (with Kovarik, M.) Integral triangles and circles. 90f:51025

Jonak, Marcin. On circles that are superosculating to conics. (Polish. English and Russian summaries) 90d:51032

Kovarik, M. *see* Hunter, Aleck J., 90f:51025

Lu, Song Xi. A geometric method for graphing the product of two functions: the parabola method. (Chinese) 90j:51020

Raczyński, Tadeusz. Constructions fondamentales dans l'application gauche rotativement. (Polish summary) [Fundamental constructions in the rotationally skew mapping] 90j:51021

— Principe d'application des éléments non spécifiques et le problème du parallélisme dans l'application rotativement gauche. (Polish summary) [The nonspecific element mapping principle and the problem of parallelism in the rotationally skew mapping] 90j:51022

(Schröder, Eberhard) *see* Fichtl, X., 90i:51020

Vestergaard, Preben Dahl. *see* Eckert, Ernest J., 90i:51019

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Borut, Stanisław (with Jonak, Marcin) Construction of a subset of conics of revolution passing through a given conic curve. (Polish. English and Russian summaries) 90a:51020

Coxeter, H. S. M. Trisecting an orthoscheme. 90d:51034

Dimantov, E. A. Modeling an involutive projectivity of the complex line. (Russian) 90i:51028

Fleurent, G. M. Symmetry and polyhedral stellations. Ia. 90g:51028

— Symmetry and polyhedral stellations. Ib. 90g:51029

Hsi, Chen Jung. On Simson lines in the sense of Langley. 90d:51029

Jonak, Marcin. *see* Borut, Stanisław, 90a:51020

Linder, K. *see* Zsombor-Murray, P. J., 90d:51003

Lorimer, Peter. Towards a 3-dimensional model of the 120-cell. 90c:51027

Messer, P. W. (with Wenninger, M. J.) Symmetry and polyhedral stellations. II. 90g:51030

Overdijk, Douwe. De driedimensionale constructie van Reuleaux. (Dutch) [Reuleaux's three-dimensional constructions] 90b:53001

Riede, Harald. Reflexion am Kugelspiegel. Oder: das Problem des Alhazen. [Reflection in a spherical mirror. Or: the problem of Ibn al-Haytham] 90g:51048

Stakhov, A. P. The golden section in the measurement theory. 90d:11027

Verheyen, H. F. The complete set of jitterbug transformers and the analysis of their motion. 90d:51036

Vagt, Otmir. On a family of spheres that are tangent to three given spheres. (Polish. English and Russian summaries) 90b:51022

Wenninger, M. J. *see* Messer, P. W., 90g:51030

Zsombor-Murray, P. J. (with Linder, K.) A descriptive geometric approach to circle constructions. *see* 90d:51003

51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

Björner, Anders (with Edelman, Paul H.; Ziegler, Günter M.) Hyperplane arrangements with a lattice of regions. 90k:51036

Bloomenthal, Jules. Natural shapes and implicit models. *see* 90d:51002

Bardina, V. I. Coordination polyhedra of dual subdivisions of a three-dimensional sphere of rotations for the group 3×23 . 90i:51021

Coxeter, H. S. M. Trisecting an orthoscheme. 90d:51034

— Star polytopes and the Schläfli function $f(\alpha, \beta, \gamma)$. 90d:51033

David, Guy René (with Tomei, C.) The problem of the calissons. 90c:51024

Dimovski, Ivan Hristov. Generalization of a problem of Academician L. Chakalov. (Bulgarian. English summary) 90f:51026

Edelman, Paul H. *see* Björner, Anders; et al., 90k:51036

Fleurent, G. M. Symmetry and polyhedral stellations. Ia. 90g:51028

— Symmetry and polyhedral stellations. Ib. 90g:51029

Gardner, Richard J. (with Wagon, Stan) At long last, the circle has been squared. 90j:51023

Hacon, Derek (with Tomei, C.) Tetrahedral decompositions of hexahedral meshes. 90i:51022

Léger, Christian (with Terrason, Jean-Claude) Les cinq métamorphoses des surfaces pavées. (English summary) [The five metamorphoses of tessellated surfaces] 90a:51018

Lorimer, Peter. Towards a 3-dimensional model of the 120-cell. 90c:51027

Makovsky, E. Ornamental brickwork. Theoretical and applied symmetrology and classification of patterns. 90c:51025

McMullen, Peter (with Schulte, E.) Regular polytopes from twisted Coxeter groups. 90i:51031

Mendelsohn, N. S. (with Padmanabhan, R.) Self-inscribed polygons with vertices on nonsingular cubic curves. 90b:51024

Messer, P. W. (with Wenninger, M. J.) Symmetry and polyhedral stellations. II. 90g:51030

Padmanabhan, R. *see* Mendelsohn, N. S., 90b:51024

Pedersen, Flemming Damhus. Douglas pentagons in Fabricius-Bjerre's version. (Danish. English summary) 90b:51025

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Shubnikov, A. V. Symmetry of similarity. 90d:51035

— Antisymmetry of textures. 90g:51032

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Verheyen, H. F. The complete set of jitterbug transformers and the analysis of their motion. 90d:51036

Wagon, Stan. *see* Gardner, Richard J., 90j:51023

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(Babbel, Beate) *see* Miyazaki, Koji, 90k:52012

Billinski, S. Die windschiefen Archimedischen Polyeder höheren Geschlechtes. [The skew Archimedean polyhedra of higher genus] 90c:51024

Bokowski, Jürgen (with Brehm, Ulrich) A polyhedron of genus 4 with minimal number of vertices and maximal symmetry. 90a:52008

Brehm, Ulrich. *see* Bokowski, Jürgen, 90a:52008

Étienne, Émile. Réflexions autour du théorème de Dehn. [Reflections on Dehn's theorem] 90k:01016

(Euler, Leonhard) *see* Shashkin, Yu. A., 90j:51002

Hecker, Hans-Dietrich (with Herwig, Dietmar) Zur schnellen Zerlegung von Polygonen in sternförmige Polygone. [On fast decomposition of polygons into star-shaped polygons] 90c:68078

Herwig, Dietmar. *see* Hecker, Hans-Dietrich, 90c:68078

Kramer, Peter. "Das Pentagramma macht dir Pein?" Violation of periodic symmetry in quasicrystals. 90k:82076

Kulshrestha, D. K. (with Sag, T. W.) Symmetric k -ellipses with limiting eccentricity. 90k:51030

Landy, Steven. A generalization of Ceva's theorem to higher dimensions. 90c:51020

Lee, Carl W. The associahedron and triangulations of the n -gon. 90i:52010

Matousek, Jiří. Line arrangements and range search. 90i:68087

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Miyazaki, Koji. Polyeder und Kosmos. (German) [Polyhedra and cosmos] 90k:52012

Sag, T. W. *see* Kulshrestha, D. K., 90k:51030

Shashkin, Yu. A. Característica euleriana. (Spanish) [The Euler characteristic] 90j:51002

Stephanides, Adam. Regular incidence quasi-polytopes and regular maps. 90f:52015

Ziegler, Günter M. The face lattice of hyperplane arrangements. 90a:52015

51M25 Length, area and volume [see also 26B15]

Abi-Khuzam, Faruk F. (with Boghossian, Artin B.) Some recent geometric inequalities. 90b:51022

Bockman, S. F. Generalizing the formula for areas of polygons to moments. 90c:51026

Boghossian, Artin B. *see* Abi-Khuzam, Faruk F., 90b:51022

Carroll, C. E. (with Klamkin, M. S.) Inequalities for convex cyclic polygons. 90g:51033

Deignan, J. *see* Pennell, S., 90d:51037

Dorninger, Dietmar (with Hasibeder, Günther) Polygons of shortest perimeter reconstructing chromosomal order. 90k:51037

Hasibeder, Günther. *see* Dorninger, Dietmar, 90k:51037

Hsiang, Wu-Yi. On infinitesimal symmetrization and volume formula for spherical or hyperbolic tetrahedrons. 90b:51026

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Jaritz, Renate. Über einen abstrakten Jordanhalt für Zerlegungsstrukturen. (English summary) [On an abstract Jordan content for decomposition structures] 90f:51027

- Klamkin, M. S. *see* Carroll, C. E., 90g:51033
- Klebaner, Fima C. (with Sudbury, Aidan; Watterson, G. A.) The volumes of simplices, or, find the penguin. 90f:51023
- Konyagin, S. V. (with Savin, A. P.) Universal rulers. (Russian) 90k:51038
- Liu, Gen Hong Sine theorems in E^n and their applications. (Chinese. English summary) 90f:51024
- Liu, Li (with Zhou, Jian Nong) A higher-dimensional extension of a classical inequality. (Chinese. English summary) 90m:51006
- Lowen, Marcos Luiz Mathematical curiosity: balls, icosahedra or cubes. (Portuguese. English summary) 90g:51034
- Mao, Qi Ji An inequality for "metric addition". (Chinese) 90j:51024
- Mitrinović, Dragoslav S. (with Pečarić, Josip E.; Janous, Walter) Some trigonometric inequalities. (Serbo-Croatian summary) 90e:51027
- Möhl, Werner Über Trapezen umschriebene rechtwinklige Dreiecke. [On right-angled triangles circumscribing trapezoids] 90k:51039
- Pečarić, Josip E. *see* Mitrinović, Dragoslav S.; et al., 90e:51027
- Pennell, S. (with Deignan, J.) Computing the projected area of a cone. 90d:51037
- Savin, A. P. *see* Konyagin, S. V., 90k:51038
- Shimizu, Tamon A quality of n -simplex in n -dimensional Euclidean space. 90e:51028
- Siemon, H. Bemerkung zum Ecken- und Flächenschwerpunkt von Vierecken. [Comment on the center of gravity of the vertices and the centroid of quadrangles] 90g:51035
- Smith, David J. (with Vamanamurthy, Mavina K.) How small is a unit ball? 90e:51029
- Sudbury, Aidan *see* Klebaner, Fima C.; et al., 90f:51023
- Szymański, Stanisław On the categoricity of the metrical geometry on the sphere. (Polish summary) 90h:51023
- Vamanamurthy, Mavina K. *see* Smith, David J., 90e:51029
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- Ahmed, S. I. *see* Al-Rashed, Abdallah M., 90m:11112
- Al-Rashed, Abdallah M. (with Ahmed, S. I.) A generalization of the number π . 90m:11112
- Alcina, Claudi (with Benz, Walter) Proportion functions in three dimensions. 90h:39018
- *see also* García Roig, J.-L., 90k:51025
- Benz, Walter *see* Alcina, Claudi, 90h:39018
- Choukha, Raouf Problèmes de Paul Lévy sur les polygones articulés. (English summary) [Problems of Paul Lévy on articulated polygons] 90a:52019
- García Roig, J.-L. (with Alcina, Claudi) On continuous preservation of norms and areas. 90k:51025
- Guyon, Etienne *see* Roux, Stéphane; et al., 90h:52008
- Huxley, M. N. The area within a curve. 90h:11097
- Kasimatis, E. A. Dissections of regular polygons into triangles of equal areas. 90e:52008
- Kötzler, Rolf (with Roth, Michael) Zur Länge einer ebenen geschlossenen Kurve und des Randes ihrer konvexen Hülle. (English summary) [On the length of a plane closed curve and the boundary of its convex closure] 90a:52021
- Mitrinović, Dragoslav S. (with Pečarić, Josip E.) On the Erdős-Mordell inequality for a polygon. 90h:52013
- Pečarić, Josip E. *see* Mitrinović, Dragoslav S., 90h:52013
- Qian, Li Wen (with Wang, Zhen) Logarithmic convexity of the triangular area function Δ . (Chinese) 90d:52019
- Roth, Michael *see* Kötzler, Rolf, 90a:52021
- Roux, Stéphane (with Guyon, Etienne; Sornette, Didier) Hull percolation. 90h:52008
- Sornette, Didier *see* Roux, Stéphane; et al., 90h:52008
- Su, Hua Ming Some geometric inequalities concerning the centroid of a simplex. (Chinese. English summary) 90h:52016
- Wang, Zhen *see* Qian, Li Wen, 90d:52019
- Zhang, Yao Two inequalities for the volume of an n -dimensional simplex. (Chinese) 90e:52026

51M30 Line geometries and their generalizations

- Kozłowski, Edwin An axiom system for the line geometry. 90e:51030
- Lankosz, Adam (with Loskiewicz, Genowefa; Rachwał, Tadeusz) Some properties of conic pencils. (Polish. English summary) 90g:51036
- Loskiewicz, Genowefa *see* Lankosz, Adam; et al., 90g:51036
- Rachwał, Tadeusz *see* Lankosz, Adam; et al., 90g:51036
- Stratopoulos, George The classification and uniqueness of new line involutions. 90f:51028

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- Hassanien, S. F. *see* Soliman, M. A., 90a:53019
- Soliman, M. A. (with Hassanien, S. F.) The Klein images of different types of line complexes immersed in S_3 onto the hyperquadric P^4 of S_3 . (Arabic summary) 90a:53019

51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

- Logunov, I. S. Projective invariants of plane curves of third order. (Russian) (see 90m:00019)

51M99 None of the above, but in this section

- Lewandowski, Andrzej (with Makowiecka, Hanna; Uscki, Mirosław) On common properties of Euclidean, Galilean and Minkowskian circles. 90f:51029
- (with Makowiecka, Hanna; Uscki, Mirosław) On Euclidean-like inversion and its applications. 90f:51030
- Makowiecka, Hanna *see* Lewandowski, Andrzej; et al., 90f:51029 and 90f:51030
- Nguyễn Canh Toàn (with Nguyễn Đăng Phát) Les espaces ultranoneuclidiens. [Ultra-non-Euclidean spaces] 90g:51037

- Nguyễn Đăng Phát *see* Nguyễn Canh Toàn, 90g:51037
- Ruoff, Dieter Eine kleine n -Ecks-Lehre. [A small catechism concerning n -gons] 90a:51019
- Uscki, Mirosław *see* Lewandowski, Andrzej; et al., 90f:51029 and 90f:51030
- Whiteley, Walter Rigidity and polarity. II. Weaving lines and tensegrity frameworks. 90m:51007
- Yamaleev, R. M. * О геометрических образах в трехмерном пространстве с кубической метрикой. (Russian) [Geometric forms in a three-dimensional space with cubic metric] 90g:51038

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- Bihlmayer, W. (with Forst, Wilhelm) Approximation by circles. 90i:90086
- Fishburn, Peter C. Circle orders and angle orders. 90j:06003
- Forst, Wilhelm *see* Bihlmayer, W., 90i:90086
- Garit, V. P. (with Zamorzaev, A. M.) On a subgroup of finite index in an n -dimensional discrete group of affine transformations. (Russian) 90c:20006
- Makai, Endre, Jr. *see* Tarnai, T., 90m:52010
- Milošević, D. M. Some inequalities for the triangle. (Serbo-Croatian summary) 90i:26029
- Santoro, Nicola (with Sidney, J. B.; Sidney, S. J.; Urrutia, Jorge) Geometric containment and partial orders. 90e:06010
- Schwarz, Binyamin (with Zaks, Abraham) On geometries of the projective matrix space. 90k:20083
- Sidney, J. B. *see* Santoro, Nicola; et al., 90e:06010
- Sidney, S. J. *see* Santoro, Nicola; et al., 90e:06010
- Tarnai, T. (with Makai, Endre, Jr.) A movable pair of tetrahedra. 90m:52010
- Urrutia, Jorge *see* Santoro, Nicola; et al., 90e:06010
- Zaks, Abraham *see* Schwarz, Binyamin, 90k:20083
- Zamorzaev, A. M. *see* Garit, V. P., 90c:20006

51Nxx Analytic and descriptive geometry

51N05 Descriptive geometry

- Borut, Stanisław (with Jonak, Marcin) Construction of a subset of conics of revolution passing through a given conic curve. (Polish. English and Russian summaries) 90a:51020
- Crape, Henry Graphics programming in PostScript. (see 90d:51002)
- Creech, Ludmila Example of a closed projection base system. (see 90d:51002)
- Đorđević, Lazar Descriptive geometrical methods of space restitutions of algebraic plane curves. (see 90d:51002)
- Dražos, I. The two-view drawing in the epoch of computational geometry. (see 90d:51002)
- Fucke, Rudolf (with Kirch, Konrad; Nickel, Heinz) * Darstellende Geometrie. (German) [Descriptive geometry] 90f:51031
- Fuchs, Wilhelm (with Stachel, Hellmuth) Applied descriptive geometry problems. 90f:51025
- Giering, Oswald (with Seybold, Hans) * Konstruktive Ingenieurgeometrie. (German) [Constructive geometry for engineers] 90m:51008
- Goss, Larry D. Graphic representation of three-dimensional wire frame primitives in computer-aided design. (see 90d:51002)
- Grochowski, Bogusław Convergence scales for the sun point projections with double converging scale. 90h:51027
- Hanna, Wagih N. Central perspective of the four-dimensional space. 90f:51025
- Hartmann, Erich * Computerunterstützte Darstellende Geometrie. (German) [Computer-aided descriptive geometry] 90f:51026
- Held, Martin Computational geometry for pocket machining. (see 90d:51002)
- Jonak, Marcin *see* Borut, Stanisław, 90a:51020
- Kirch, Konrad *see* Fucke, Rudolf; et al., 90f:51031
- Klement'ev, V. Ya. (with Vol'fson, V. Sh.) Some advantages of metric operations in the key of calculated geometric models. (Russian) 90g:51039
- Koch, Andrzej Rectilinear surfaces in a double-image model of a linear representation. (Polish. English summary) 90h:51024
- Koryakina, A. P. Calculation-geometric models for solving systems of n linear equations with n unknowns. (Russian) 90f:51032
- Laghi, Guido Cesare About the contour shape of a hypercube in isometric axonometry. 90f:51033
- Linder, K. *see* Zombor-Murray, P. J., (90d:51003)
- Moustafa, Moustafa R. Descriptive geometry, reference line nomenclature implications: traditional vs. new approach. (see 90d:51003)
- Nickel, Heinz *see* Fucke, Rudolf; et al., 90f:51031
- Odaka, Naoki A fundamental theorem for perspective projection and its application. 90g:51040
- Peklich, V. A. The descriptive geometry of a six-dimensional affine space. (Russian) 90h:51025
- Pengilly, C. J. *see* Thomas, V. O., (90d:51003)
- Qian, Yi *see* Zhu, Hui, (90d:51003)
- Richard, Ray (with VanBerk, Eric) Descriptive solid geometry (DSG), a new approach to solids modeling on computers. (see 90d:51003)
- Rotenberg, Abram Mongean, affine and projective models of three- (or four-) dimensional spaces. (see 90d:51003)
- Sato, Jinichiro Arrangement characteristic of perspective using computer. (see 90d:51003)
- Seiner, Yan (with Slaby, Steve M.) 4D-Ed, a four-dimensional computer aided design system. (see 90d:51003)
- Seybold, Hans *see* Giering, Oswald, 90m:51008
- Slaby, Steve M. Descriptive geometry—the science of visualization. (see 90d:51003)
- *see also* Seiner, Yan, (90d:51003)
- Stachel, Hellmuth *see* Fuchs, Wilhelm, 90f:51025
- Thomas, V. O. (with Pengilly, C. J.) Computational descriptive geometry and the exterior calculus. (see 90d:51003)
- Tschupik, Josef P. Applied descriptive geometry: sunlight problems in architecture. 90g:51041

- VanBerk, Eric *see* Richard, Ray, (90d:51003)
 Val'rusan, V. Sh. *see* Klement'ev, V. Yu., 90g:51039
 Voloshinov, V. A. A study of a two-dimensional model of the space R^7 . (Russian) 90h:51026
 Yang, Hui Lan Research on perspective in 3-dimensional space. (Chinese. English summary) 90j:51026
 Yang, Dao Ning (with Zhou, Ming Wei) SMSZU—a solid modeler with a TST processor. 90c:51031
 Zdzialski, Andrzej Central-reflexive mapping of elements of a space onto an anafornal projection plane. (Polish. English and Russian summaries) 90c:51028
 Zhao, Ming Wei *see* Yang, Dao Ning, 90c:51031
 Zhu, Hui (with Qian, Yi) Solving the workspace problem of robot on the basis of graphical and analytical method. (see 90d:51003)
 Zsombor-Murray, P. J. (with Linder, K.) A descriptive geometric approach to circle constructions. (see 90d:51003)

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- Bielinski, Andrzej The structure of descriptive geometry of the four-dimensional Lobachevski space. 90g:51024
 Charit, Yehuda The geometrical base of three-dimensional realignment of deformed bones through an oblique osteotomy. (see 90d:51002)
 (Deer, V. M.) *see* Geometric modeling and descriptive geometry, 90d:51001
 Karger, Adolf Application of descriptive geometry in the geometry of robot motion. (see 90d:51002)
 (Slaby, Steve M.) *see* Proceedings: Conference on Engineering Graphics and Descriptive Geometry, 90d:51002 and 90d:51003
 (Stachel, Hellmuth) *see* Proceedings: Conference on Engineering Graphics and Descriptive Geometry, 90d:51002 and 90d:51003
 Vasil, Angela (with Vlac, Iuliu) About graphics representation of the surfaces given by parametric equations. (see 90d:53002)
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 Engineering Graphics and Descriptive Geometry ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 1. 90d:51002
 — ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 2. 90d:51003
 Geometric Modeling and Descriptive Geometry ★ Геометрическое моделирование и начертательная геометрия. (Russian) [Geometric modeling and descriptive geometry] 90d:51001
 Geometric modeling and descriptive geometry ★ Геометрическое моделирование и начертательная геометрия. (Russian) [Geometric modeling and descriptive geometry] 90d:51001
 Proceedings:
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 — ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 2. 90d:51003
 Vienna ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 1. 90d:51002
 — ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 2. 90d:51003

51N10 Affine analytic geometry

- Gladikina, S. G. Use of coordinates and the art of coupling a hyperboloid. (Russian) 90h:51028
 Hei, Chen Jung On affine generalizations of a few theorems in elementary geometry. 90a:51021
 Schaal, Hermann Die affin invarianten rechten Winkel. [Affine invariant right angles] 90h:51027
 Teodorescu, I. D. On (p, q) -cylinders in a Euclidean space. (Romanian) 90c:51032a
 — On (p, q) -cones in a Euclidean space. (Romanian) 90c:51032b
 Wang, Jin Min Central projection of the affine coordinate system. (Chinese. English summary) 90g:51042
 Yang, Gan Xia The Monge method applied to determination of angles in the four-dimensional Euclidean space. 90g:51043

Items with secondary classifications in 51N10

- Borut, Stanislaw Construction of a circle that is affine to an ellipse defined by its axes. (Polish. English and Russian summaries) 90a:51017

51N15 Projective analytic geometry

- Buchic, Stanislaw The Poncelet configuration of closing for normal curves. 90g:51044
 Dimantov, E. A. Modeling an involutive projectivity of the complex line. (Russian) 90c:51028
 Liu, De Yuan An improvement in the proof of a theorem in one-dimensional projective geometry. (Chinese. English summary) 90d:51038
 Lookiewicz, Genowefa Certain transformation non linéaire de l'espace projectif tridimensionnel dans un plan. (Polish summary) [A certain nonlinear transformation of three-dimensional projective space into the plane] 90g:51045
 Mandan, Sahib Ram Hesse's theorem in n -space. 90a:51022
 — (with Sanyal, Arun) An extension of Hesse's theorem in an n -space P_n . 90a:51023
 Misra, Saroj Kanta *see* Sanyal, Arun, 90a:51040
 Ogata, Takehide On the relationship between the axes and the polars of triangles. (Japanese. English summary) 90a:51024

- Sanyal, Arun (with Misra, Saroj Kanta) Veronesian pair and associated desmic system. 90k:51040
 — *see also* Mandan, Sahib Ram, 90a:51023
 Witczyński, Krzysztof Sur les générateurs du groupe des transformations projectives du plan projectif. [On the generators of the projective transformation group of the projective plane] 90c:51029
 Ye, Tian Shun On some methods for computing cross ratios. (Chinese) 90j:51027

Items with secondary classifications in 51N15

- Geise, Gerhard Projektion des Schnitts zweier Quadriken. [Projection of the intersection of two quadrics] 90b:14065
 Voloshinov, V. A. A study of a two-dimensional model of the space R^7 . (Russian) 90h:51026
 Yang, Hui Lan Research on perspective in 3-dimensional space. (Chinese. English summary) 90j:51026

51N20 Euclidean analytic geometry

- Cardoso, Jayme Machado Equations of some cisoids. (Portuguese) 90b:51029
 Chen, Jian A theorem on parallel projection. (Chinese. English summary) 90f:51034
 Dimitrov, L. *see* Firneis, F.; et al., 90i:51029
 Dyda, Tadeusz Coaxial centrally collinear transformations in $\{E^3\}$. (Polish. English and Russian summaries) 90d:51039
 Firneis, F. (with Firneis, M.; Dimitrov, L.; Frank, G.; Thaller, R.) On some applications of quaternions in geometry. 90i:51029
 Firneis, M. *see* Firneis, F.; et al., 90i:51029
 Frank, G. *see* Firneis, F.; et al., 90i:51029
 Glavas, C. B. ★ The geometrical equivalence as an independent method with illustrations. 90g:51046
 Górka, Renata (with Jonak, Marcin) Some problems of conics theory. (Polish summary) 90g:51047
 Huang, Wei Yu A criterion for the affine classification of second-order curves. (Chinese) 90d:51040
 Jonak, Marcin *see* Górka, Renata, 90g:51047
 Kimberling, Clark Fibonacci hyperbolas. 90j:51028
 Kirsch, Arnold Anschauliche Begründung einiger Verfahren der numerischen Mathematik aus der Geometrie der Parabel. [Visualized justification of some methods of numerical mathematics from the geometry of the parabola] 90a:51025
 Li, Gui Lan (with Song, Ping) Perspective transformation of conic sections. (Chinese. English summary) 90f:51035
 Lima, Ásvald Steiner's porism. (Norwegian. English summary) 90d:51041
 Li, Jian Ke A general method for finding the pseudocenter of a point set. (Chinese) 90a:51026
 Nitsche, Johannes C. C. Isoptic characterization of a circle (proof of a conjecture of M. S. Klamkin). 90j:51029
 Riede, Harald Reflexion am Kugelspiegel. Oder: das Problem des Alhazen. [Reflection in a spherical mirror. Or: the problem of ibn al-Haytham] 90g:51048
 Sander, Hans-Joachim Die Berechnung der kürzesten Entfernung zweier Punkte auf der Erdoberfläche. Ein heuristischer Zugang zum Seitenkosinussatz. [Computing the shortest distance between two points on the earth's surface. A heuristic approach to the cosine law for sides] 90j:51030
 Siemon, H. Noch eine Bemerkung zum Schmetterlingsatz. [Yet another comment on the butterfly theorem] 90g:51049
 Sinchenko, L. D. Problems in the geometry of torus surfaces. (Russian) 90f:51036
 — Geometrical modelling of new tori and torellike forms. (see 90d:51003)
 Slav, L. I. A geometric interpretation of coordinate transposition. (Russian) 90g:51050
 Song, Ping *see* Li, Gui Lan, 90f:51035
 Stachel, Hellmuth Einige metrische Kegelschnitteigenschaften. [Some properties of metric conics] 90i:51030
 (Steiner, Jacob) *see* Lima, Ásvald, 90d:51041
 Takeyama, Kazuhiko A new interpretation of the oblique projection from the viewpoint of coordinate transformations. (see 90d:51003)
 Thaller, R. *see* Firneis, F.; et al., 90i:51029
 Vijayakumar, Ambat On an analogue of ellipses in the discrete holometric space. 90m:51009
 Walser, Hans Ein Schließungssatz der Elementargeometrie. [A closure theorem of elementary geometry] 90a:51027a
 — *see also* Wyss, R., 90a:51027b
 Weiss, Gunter *see* Wyss, R., 90a:51027b
 Wyss, R. (with Weiss, Gunter) Comments on: "A closure theorem of elementary geometry" [Elem. Math. 43 (1988), no. 6, 161–169; MR 90a:51027a] by Hans Walser. (German) 90a:51027b

Items with secondary classifications in 51N20

- Deignan, J. *see* Pennell, S., 90d:51037
 Deng, Mi Ke The parallel numerical method of proving the constructive geometric theorem. 90m:03023
 Lang, Johann (with Röschel, Otto) Eine äquiforme Eigenschaft der Mittelpunktskegelschnitte. [An equiform property of central conic sections] 90g:51051
 Lasser, Dieter Self-intersections of parametric surfaces. 90b:65018
 Pablo, Rubio Cubic lines relative to a triangle. 90c:51021
 Pennell, S. (with Deignan, J.) Computing the projected area of a cone. 90d:51037
 Röschel, Otto *see* Lang, Johann, 90g:51051
 Schupp, Hans ★ Kegelschnitte. (German) [Conic sections] 90b:51002
 Siemon, H. Bemerkung zum Ecken- und Flächenschwerpunkt von Vierecken. [Comment on the center of gravity of the vertices and the centroid of quadrangles] 90g:51035
 Takeuchi, Nobuko A sphere as a surface which contains many circles. II. 90b:53002

51N25 Analytic geometry with other transformation groups

- Lang, Johann (with Röschel, Otto) Eine äquiforme Eigenschaft der Mittelpunktskegelschnitte. [An equiform property of central conic sections] 90b:51051
- Röschel, Otto Torusflächen des galileischen Raumes G_3 . [Torus surfaces of the Galilei space G_3] 90b:51030
- see also Lang, Johann, 90g:51051
- Sachs, Hans Okulierende und hyperoskulierende Kegelschnittbüschel der isotropen Ebene. I. [Osculating and hyperosculating pencils of conics of the isotropic plane. I] 90c:51030
- Tang, Hong E. An elementary study of the properties of rational circle curves. (Chinese. English summary) 90c:51031

Items with secondary classifications in 51N25

- Huang, Wei Yu A criterion for the affine classification of second-order curves. (Chinese) 90d:51040
- Husty, Manfred Zweiparametrische äquiforme Bewegungen der isotropen Ebene. [Two-parameter equiform motions in the isotropic plane] 90g:53015
- Lang, Johann Planetenbewegungen des Flaggenraumes. (English summary) [Planetary motions of the flag space] 90b:51031

51N30 Geometry of classical groups [see also 20Gxx, 14Lxx]

- Feng, Wei Chuan see Yia, Jing Yao, 90i:51031
- Lang, Johann Planetenbewegungen des Flaggenraumes. (English summary) [Planetary motions of the flag space] 90b:51031
- Yia, Jing Yao (with Feng, Wei Chuan) An inequality for sines of higher-dimensional angles and its application. (Chinese) 90i:51031

Items with secondary classifications in 51N30

- Lang, Johann (with Röschel, Otto) Eine äquiforme Eigenschaft der Mittelpunktskegelschnitte. [An equiform property of central conic sections] 90g:51051
- Radó, F. On the semi-isometries of metric vector spaces. 90d:51024
- Röschel, Otto see Lang, Johann, 90g:51051

51N35 Questions of classical algebraic geometry [see also 14Nxx]

- Degoll, Lando Sur l'utilisation des déter-cubes dans les systèmes linéaires des quadriques. [On using detercubes in linear systems of quadrics] 90j:51031b
- Sur les déter-cubes et leurs applications aux systèmes linéaires de quadriques. (English summary) [Detercubes and their applications to linear systems of quadrics] 90j:51031a
- Hart, J. Externe punkte bei quadriken. [External points in quadrics] 90k:51041
- Kozłowski, Edwin A pencil of unicursal, plane, n th order curves as a pencil of perspective rays. 90d:51042
- Shaker, N. H. Conics related by triangles. (Arabic summary) 90d:51043
- Items with secondary classifications in 51N35
- Degoll, Lando Un nouveau théorème sur la variété de Veronese. (Russian and Slovak summaries) [A new theorem on Veronese varieties] 90b:14064
- Eneva, Gergana V. A Cremona correspondence between three-dimensional planes in a five-dimensional complex projective space. (Russian. English summary) 90g:14007
- Hayashi, Eichi A REDUCE application program. 90e:51002
- Krivonozhko, G. V. see Rosenfeld, B. A.; et al., 90b:53012
- Lankosz, Adam (with Loskiewicz, Genowefa; Rachwał, Tadeusz) Some properties of conic pencils. (Polish. English summary) 90g:51036
- Loskiewicz, Genowefa see Lankosz, Adam; et al., 90g:51036
- Petrov, L. K. Linear inversion with respect to the cubic norm-surface V_2^3 in P_4 . (Bulgarian. English and Russian summaries) 90b:14020
- Piccoletti, Lia Floravanti More on a differential characterization of Veronese manifolds. 90c:53032
- Rachwał, Tadeusz see Lankosz, Adam; et al., 90g:51036
- Rosenfeld, B. A. (with Krivonozhko, G. V.; Shul'ga, N. V.; Yuktina, T. I.) Metric and symplectic Segreans and quasi-Segreans. 90b:53012
- Shul'ga, N. V. see Rosenfeld, B. A.; et al., 90b:53012
- Weinberg, David A. The affine classification of cubic curves. 90b:14068
- The topological classification of cubic curves. 90b:14069
- Yuktina, T. I. see Rosenfeld, B. A.; et al., 90b:53012

51N99 None of the above, but in this section

- Tan, Pi Hsin On independent affine sets. (Chinese summary) 90d:51044
- Items with secondary classifications in 51N99
- Gysin, Liliana Mabel Über die Realisierbarkeit gegebener Verteilungstypen durch Streckennetze. [On the realizability of given distribution types by nets of curves] 90g:52008
- Lewandowski, Andrzej (with Makowiecka, Hanna; Uscki, Mirosław) On common properties of Euclidean, Galilean and Minkowskian circles. 90f:51029
- (with Makowiecka, Hanna; Uscki, Mirosław) On Euclidean-like inversion and its applications. 90f:51030
- Makowiecka, Hanna see Lewandowski, Andrzej; et al., 90f:51029 and 90f:51030
- Uscki, Mirosław see Lewandowski, Andrzej; et al., 90f:51029 and 90f:51030
- Yamaleev, R. M. * О геометрических образах в трехмерном пространстве с кубической метрикой. (Russian) [Geometric forms in a three-dimensional space with cubic metric] 90g:51038

52-XX Convex sets and related geometric topics

52-01 Elementary exposition; textbooks

- Items with secondary classifications in 52-01
- Walk, Manfred * Theory of duality in mathematical programming. 90g:90124

52-02 Advanced exposition (research surveys, monographs, etc.)

- Bokowski, Jürgen (with Sturmfels, Bernd) * Computational synthetic geometry. 90i:52001
- Sturmfels, Bernd see Bokowski, Jürgen, 90i:52001
- Items with secondary classifications in 52-02
- Chatterji, B. N. see Das, P. P., 90k:52015
- Das, P. P. (with Chatterji, B. N.) Hyperspheres in digital geometry. 90k:52015
- Fomenko, A. T. Visual and hidden symmetry in geometry. 90e:92100

52-03 Historical (must also be assigned at least one classification number from Section 01)

- Pfiefer, Richard E. The historical development of J. J. Sylvester's four point problem. 90m:52001

52-04 Explicit machine computation and programs (not the theory of computation or programming)

- Bajaj, Chanderjit (with Kim, Myung Soo) Generation of configuration space obstacles: the case of moving algebraic curves. 90d:52001
- Chazelle, Bernard (with Guibas, Leonidas) Visibility and intersection problems in plane geometry. 90f:52001
- Edelsbrunner, Herbert (with Guibas, Leonidas; Sharir, Micha) The upper envelope of piecewise linear functions: algorithms and applications. 90f:52003
- The upper envelope of piecewise linear functions: tight bounds on the number of faces. 90f:52004
- Guibas, Leonidas see Chazelle, Bernard, 90f:52001 and Edelsbrunner, Herbert; et al., 90f:52003
- Kim, Myung Soo see Bajaj, Chanderjit, 90d:52001
- Nagano, Saburo see Nagashima, Shinobu; et al., 90i:52002
- Nagashima, Shinobu (with Suzuki, Kenjiro; Nagano, Saburo) Inclusion tests for polygons and polyhedra. 90i:52002
- Pach, János (with Sharir, Micha) The upper envelope of piecewise linear functions and the boundary of a region enclosed by convex plates: combinatorial analysis. 90f:52002
- Sharir, Micha see Pach, János, 90f:52002 and Edelsbrunner, Herbert; et al., 90f:52003
- Suzuki, Kenjiro see Nagashima, Shinobu; et al., 90i:52002
- Items with secondary classifications in 52-04
- Abdollahi, M. see Pham, Duc Truong, 90b:68105
- Abramowski, Stephan (with Lang, Bruno; Müller, Heinrich) Moving regular k -gons in contact. (see 90b:68091)
- Aggarwal, Alok (with Guibas, Leonidas; Saxe, James; Shor, Peter) A linear-time algorithm for computing the Voronoi diagram of a convex polygon. 90g:68134
- Ahlfeld, Uwe (with Hecker, Hans-Dietrich) Algorithmen zur unimodalitätsbestimmung einfacher polygone. [Algorithms for computing the unimodality of simple polygons] (Not in MR)
- Algül, Mustafa An algorithmic proof of the polyhedral decomposition theorem. 90g:90100
- Akimov, A. P. see Akimova, I. Ya., 90k:68164
- Akimova, I. Ya. (with Akimov, A. P.) Weighted Voronoi partitions. 90k:68164
- Aronov, Boris On the geodesic Voronoi diagram of point sites in a simple polygon. 90c:68074
- Atallah, Mikhail J. (with Goodrich, Michael T.) Parallel algorithms for some functions of two convex polygons. 90b:68095
- Bhattacharya, Binay K. Circular separability of planar point sets. 90b:68097
- (with Zorbas, J.) Solving the two-dimensional findpath problem using a line-triangle representation of the robot. 90b:68084
- Chen, Chern Lin Computing the convex hull of a simple polygon. 90k:68165
- Chen, Nian Yi see Tang, Zheng Quan; et al., (Not in MR)
- Dijkstra, Edsger W. A computing scientist's approach to a once-deep theorem of Sylvester's. 90m:52009
- Dù Bá Khang (with Fujiwara, Okitsugu) A new algorithm to find all vertices of a polytope. 90j:90081
- Dobkin, David P. (with Souvaine, Diane L.; Van Wyk, Christopher J.) Decomposition and intersection of simple splines. 90f:68167
- Drysdale, Robert L., III (with Jaromczyk, Jerzy W.) A note on lower bounds for the maximum area and maximum perimeter k -gon problems. 90j:68047
- Dyer, M. E. (with Frieze, A. M.) On the complexity of computing the volume of a polyhedron. 90f:68077
- El-Gindy, Hossam A. Comments on: the computation of the convex hull of a simple polygon in linear time. (Russian summary) 90b:68101
- (with Toussaint, Godfried T.) Computing the relative neighbour decomposition of a simple polygon. 90b:68098
- Feinberg, Ellen B. (with Papadimitriou, Christos H.) Finding feasible paths for a two-point body. 90b:68099
- Franzblau, D. S. Performance guarantees on a sweep-line heuristic for covering rectilinear polygons with rectangles. 90f:05040
- Frieze, A. M. see Dyer, M. E., 90f:68077
- Fujiwara, Okitsugu see Dù Bá Khang, 90j:90081
- Goodrich, Michael T. see Atallah, Mikhail J., 90b:68095
- Guibas, Leonidas see Aggarwal, Alok; et al., 90g:68134

- Hecker, Hans-Dietrich (with Herwig, Dietmar) NP-harte Probleme für minimale Polygonüberdeckungen. [NP-hard problems for minimal polygon coverings] 90b:68085
— see also Ahlfeld, Uwe, (Not in MR)
- Herwig, Dietmar see Hecker, Hans-Dietrich, 90b:68085
- Heminger, H. (with Nolte, H.) On separable and rectangular clusterings. (see 90b:68006)
- Holmes, Peter D. (with Jungert, Erland) Shortest paths in a digitized map using a tile-based data structure. 90b:68168
- Jaromczyk, Jerzy W. see Drysdale, Robert L., III, 90j:68047
- Jungert, Erland see Holmes, Peter D., 90b:68168
- Kao, Thomas Chingtung (with Knott, Gary D.) An efficient and numerically correct algorithm for the 2D convex hull problem. (Not in MR)
- Karassik, E. B. Formalization of heuristic tactics used by human beings in searching for the closest packing of arbitrary objects in a given domain. 90b:68138
- Kilmer, V. E. (with Klislin, V. V.) Solution of the problem of synthesizing the geometry of three-dimensional objects in the class of polyhedrons. 90b:68095
- Klislin, V. V. see Kilmer, V. E., 90b:68095
- Knott, Gary D. see Kao, Thomas Chingtung, (Not in MR)
- Kong, T. Y. (with Mount, D. M.; Roscoe, A. W.) The decomposition of a rectangle into rectangles of minimal perimeter. 90b:68101
- Lang, Bruno see Abramowski, Stephan; et al., 90b:68091
- Lingas, Andrzej Voronoi diagrams with barriers and the shortest diagonal problem. 90b:68169
- Mansouri, Minou (with Toussaint, Godfried T.) On the reachability region of a ladder in two convex polygons. 90b:68102
- Matonick, Jiri Line arrangements and range search. 90b:68087
- Meiser, Stefan Point location in arrangements (extended abstract). (see 90b:68006)
- Milgram, M. S. Does a point lie inside a polygon? 90b:68139
- Mount, D. M. see Kong, T. Y.; et al., 90b:68101
- Müller, Heinrich see Abramowski, Stephan; et al., 90b:68091
- Naylor, Bruce F. see Thibault, William C., 90b:68082
- Nolte, H. see Heminger, H., (90b:68006)
- Nurmi, Otto (with Sack, Jörg-R.) Separating a polyhedron by one translation from a set of obstacles (extended abstract). (see 90b:68091)
- Overmars, Mark H. (with Wood, Derick) On rectangular visibility. 90b:68104
— Computational geometry and its application to computer graphics. 90b:68171
- Papadimitriou, Christos H. (with Silverberg, Ellen B.) Optimal piecewise linear motion of an object among obstacles. 90b:68068
— see also Feinberg, Ellen B., 90b:68099
- Pham, Duc Truong (with Abdollahi, M.) Image compression using polylines. 90b:68105
- Pollack, Richard (with Sharir, Micha; Rote, Günter) Computing the geodesic center of a simple polygon. 90b:68141
- Preparata, Franco P. (with Tamassia, Roberto) Fully dynamic point location in a monotone subdivision. 90b:68172
- Rawlins, Gregory J. E. (with Wood, Derick) Computational geometry with restricted orientations. 90b:68105
- Roscoe, A. W. see Kong, T. Y.; et al., 90b:68101
- Rote, Günter see Pollack, Richard; et al., 90b:68141
- Sack, Jörg-R. (with Toussaint, Godfried T.) Guard placement in rectilinear polygons. 90b:68106
— see also Nurmi, Otto, (90b:68091)
- Saxe, James see Aggarwal, Alok; et al., 90b:68134
- Shao, Jun² see Tang, Zheng Quan; et al., (Not in MR)
- Sharir, Micha see Pollack, Richard; et al., 90b:68141
- Shor, Peter see Aggarwal, Alok; et al., 90b:68134
- Silverberg, Ellen B. see Papadimitriou, Christos H., 90b:68068
- Sourav, Diane L. see Dobkin, David P.; et al., 90b:68167
- Sugihara, Kikichi Realizability of polyhedrons from line drawings. 90b:68107
- Tamassia, Roberto see Preparata, Franco P., 90b:68172
- Tang, Zheng Quan (with Shao, Jun²; Chen, Nian Yi) A method for constructing and computing the Voronoi polyhedron and its implementation. (Chinese. English summary) (Not in MR)
- Tarjan, Robert E. (with Van Wyk, Christopher J.) An $O(n \log \log n)$ -time algorithm for triangulating a simple polygon. 90b:68108a
— (with Van Wyk, Christopher J.) Erratum: "An $O(n \log \log n)$ -time algorithm for triangulating a simple polygon". 90b:68108b
- Thibault, William C. (with Naylor, Bruce F.) Set operations on polyhedra using binary space partitioning trees. 90b:68082
- Toussaint, Godfried T. On separating two simple polygons by a single translation. 90b:68143
— see also El-Gindy, Hossam A., 90b:68098; Sack, Jörg-R., 90b:68106 and Mansouri, Minou, 90b:68102
- Unger, Kristel ★ The convex hull problem on special planar point sets. 90b:68172
- Van Wyk, Christopher J. see Tarjan, Robert E., 90b:68108a; 90b:68108b and Dobkin, David P.; et al., 90b:68167
- Wan, S. J. (with Wong, S. K. M.) An adaptive algorithm for finding a covering hypersphere. 90b:68103
- Wenny, E. A convex hull algorithm for neural networks. 90i:92050
- Wong, S. K. M. see Wan, S. J., 90b:68103
- Wood, Derick see Overmars, Mark H., 90b:68104 and Rawlins, Gregory J. E., 90b:68105
- Zorbas, J. see Bhattacharya, Binay K., 90b:68084

52-06 Proceedings, conferences, etc.

Items with secondary classifications in 52-06

- (Jaric, Marko V.) see Introduction to quasicrystals, 90g:82003
(Ostlund, Stellan) see Physics of quasicrystals, 90b:82003
(Steinhardt, Paul J.) see Physics of quasicrystals, 90b:82003

Items listed otherwise than by author

- Introduction to quasicrystals ★ Introduction to quasicrystals. 90g:82003
Physics of quasicrystals ★ The physics of quasicrystals. 90b:82003

52A01 Axiomatic and generalized convexity

- Bandelt, Hans-Jürgen (with van de Vel, M.) Embedding topological median algebras in products of dendrons. 90j:52001
- Guay, Merle D. (with Naimpally, S. A.) Finite-dimensional convexity topological spaces. 90b:52001
- Jó, István On some convexities. 90i:52003
- Naimpally, S. A. see Guay, Merle D., 90b:52001
- Rawlins, Gregory J. E. (with Wood, Derick) A decomposition theorem for convex spaces. 90b:52002
- van de Vel, M. see Bandelt, Hans-Jürgen, 90j:52001
- Wleczorek, Andrzej Spot functions and peripherals: Krein-Milman type theorems in an abstract setting. 90f:52005
- Wood, Derick see Rawlins, Gregory J. E., 90b:52002
- Items with secondary classifications in 52A01
- Khamis, M. A. On metric spaces with uniform normal structure. 90c:54028
- Libkin, L. O. (with Muchnik, I. B.) Separatory subsemilattices and their properties. (Hungarian summary) 90c:06009
— Separation theorems for lattices. (Hungarian summary) 90c:06010
- Mardesic, Vera On support points of segmentally closed convex bodies in the rational plane. 90f:52006
- Muchnik, I. B. see Libkin, L. O., 90c:06009
- van de Vel, M. A Helly property of arcs. 90c:06008

52A05 Convex sets without dimension restrictions

- Bakan, A. G. Nonemptiness of classes of normal pairs of cones of transfinite order. 90g:52001
- Items with secondary classifications in 52A05
- Arnold, V. I. The branched covering $CP^2 \rightarrow S^4$, hyperbolicity and projective topology. 90c:57037
- Borrey, S. Semi-convex sets in vector spaces over a non-Archimedean complete valued field. 90b:46165
- Borwein, J. M. (with Fitzpatrick, Simon) Mosco convergence and the Kadec property. 90b:46025
- Fitzpatrick, Simon see Borwein, J. M., 90b:46025
- Gao, Yuan Ming (with He, Li²) Generalized convex sets in normed linear spaces. (Chinese. English summary) 90j:90150
- He, Li² see Gao, Yuan Ming, 90j:90150
- Palata, J. A survey of conical approximations used in the optimization. 90b:90155
- Popoviciu, Elena Sur certains problèmes de recherche dans la théorie de l'allure. [Some research problems in the theory of allure] 90c:26037
- Rus, Ioan A. Measures of nonconvexity and fixed points. 90d:54093
- Tsai, Pi Hsin On independent affine sets. (Chinese summary) 90d:51044

52A07 Convex sets in topological vector spaces [see also 46A55]

- Bakan, A. G. Normal pairs of cones in finite-dimensional spaces. (Russian) 90b:52001
- Dalla, Leonil Increasing paths leading to a face of a convex compact set in a Hilbert space. 90c:52001
- Toader, Gh. On a generalization of the convexity. 90b:52002
- Items with secondary classifications in 52A07
- Alpay, S. A note on compact convex sets with equal support property. (Turkish summary) 90b:46015a
— Correction to the paper: "A note on compact convex sets with equal support property". 90b:46015b
- Azoff, Edward A. (with Younis, R.) On the structure of support point sets. 90b:46014
- Becker, Richard Edouard Sur les cônes faiblement complets, contenus dans un espace de Banach. [On weakly complete cones contained in a Banach space] 90b:46043
- Bensimon, Daniela The topological space of all extreme points of a compact convex set. 90b:46018
- Hadžić, Olga Some fixed point and coincidence point theorems for multivalued mappings in topological vector spaces. 90b:47103
- Nędrusiak, Andrzej Polar reciprocal convex bodies problem in I_p -mixtures. 90c:46025
- Nielsen, Mark J. Singular points of a convex tiling. 90g:52016
- Schmidt, Klaus D. Acknowledgement of priority. 90b:46014
- Seriel, Murat On the continuity of closed convex hull. 90b:46004
- Younis, R. see Azoff, Edward A., 90b:46014

52A10 Convex sets in 2 dimensions

- Bisztriczky, T. (with Fejes Tóth, G.) Nine convex sets determine a pentagon with convex sets as vertices. 90b:52003
- Engelisch, H. The circumpolygon with maximal area. 90j:52002
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- Wenninger, M. J. see Messer, P. W. 90g:51030
- Widom, Michael Short- and long-range icosahedral order in crystals, glass, and quasicrystals. (see 90g:82003)

52A30 Invariants of convex sets (star-shaped, (m, n) -convex, etc.)

- Beltagy, M. A. On starshaped sets. 90c:52006
- Breen, Marilyn Finitely starlike sets whose F -stars have positive measure. 90i:52011
- Characterizing compact unions of two starshaped sets in \mathbb{R}^d . 90i:52012
- Unions of three starshaped sets in \mathbb{R}^2 . 90i:52009
- Gruber, Peter M. (with Zamfirescu, Tudor I.) Generic properties of compact starshaped sets. 90d:52008
- Zamfirescu, Tudor I. Description of most starshaped surfaces. 90g:52007
- see also Gruber, Peter M.; et al. 90d:52008

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- Bandelt, Hans-Jürgen (with Pesch, E.) A Radon theorem for Helly graphs. 90c:05122
- Breen, Marilyn Visible shorelines in \mathbb{R}^d . 90i:52013
- Starshaped unions and nonempty intersections of convex sets in \mathbb{R}^d . 90c:52007
- Gerasim, A. I. On $(n-1)$ -convex sets. (Russian) 90c:52006
- Pesch, E. see Bandelt, Hans-Jürgen. 90c:05122
- Zelinskii, Yu. B. The structure of m -convex compact sets. (Russian) 90c:52007

52A35 Helly-type theorems

- Balazse, É. D. (with Boltyanskii, V. G.; Chabukiani, T. A.) New results on the problem of Székfalvi-Nagy. (Russian) 90m:52007
- On the Székfalvi-Nagy problem for zonoids. (Russian. English and Georgian summaries) 90m:52008
- Boltyanskii, V. G. see Balazse, É. D.; et al. 90m:52007
- Breen, Marilyn Visible shorelines in \mathbb{R}^d . 90i:52013
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- Dofnikov, V. L. On a theorem of Helly type for sets that can be defined by systems of equations. 90k:52013
- Eckhoff, Jürgen Intersection properties of boxes. I. An upper-bound theorem. 90a:52016
- Frankl, Peter Helly-type theorems for varieties. 90k:52014
- Hare, William R. (with Thompson, G. Gerald) Some generalized Helly type theorems. 90c:52015
- Machara, Hiroshi Helly-type theorems for spheres. 90c:52016
- Oprea, Ioan A generalization of some results on separation and common transversals. 90c:52017
- Thompson, G. Gerald see Hare, William R. 90c:52015
- Tverberg, Helge Proof of Grünbaum's conjecture on common transversals for translates. 90f:52016

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- Duchet, P. Convex sets in graphs. II. Minimal path convexity. 90c:05036
- Lehel, J. Gallai-type results for multiple boxes and forests. 90d:05006
- Stratzen, J. B. Infinite dimensions for ordered incidence geometry. 90k:51003

van de Vel, M. A Helly property of arcs. 90c:06008

52A37 Other problems of combinatorial geometry

- Andrade, P. N. see Fortes, M. A.; et al. 90j:52010
- Bárány, I. (with Schmerl, James H.; Sidney, S. J.; Urrutia, Jorge) A combinatorial result about points and balls in Euclidean space. 90d:52010
- Bezdek, K. (with Connelly, R.) Intersection points. 90i:52014
- Bisztriczky, T. (with Fejes Tóth, G.) A generalization of the Erdős-Szekeres convex n -gon theorem. 90c:52005
- Charit, Raphael (with Loew, Murray; Charit, Yehuda) Computerized automatic interpretation of shadow information. (see 90d:51002)
- Charit, Yehuda see Charit, Raphael; et al. (90d:51002)
- Chatterji, B. N. see Das, P. P. 90i:52015
- Connelly, R. see Bezdek, K. 90i:52014
- Das, P. P. (with Chatterji, B. N.) Hyperspheres in digital geometry. 90k:52015
- Dijkstra, Edsger W. A computing scientist's approach to a once-deep theorem of Sylvester's. 90m:52009
- Edelsbrunner, Herbert (with Skiena, Steven S.) On the number of furthest neighbour pairs in a point set. 90h:52007
- (with Hasan, N.; Seidel, Raimund; Shen, Xiao Jun) Circles through two points that always enclose many points. 90k:52016
- (with Sharir, Micha) The maximum number of ways to stab n convex nonintersecting sets in the plane is $2n-2$. 90k:52019
- Erdős, Paul Some old and new problems in combinatorial geometry. 90a:52017
- (with Hickerson, Dean; Pach, János) A problem of Leo Moser about repeated distances on the sphere. 90h:52008
- Fejes Tóth, G. see Bisztriczky, T. 90c:52005
- Florian, August Verteilung von Punkten in einem Quadrat. [Distribution of points in a square] 90k:52017
- Fortes, M. A. (with Andrade, P. N.) The arrangement of cells in 3- and 4-regular planar networks formed by random straight lines. (French summary) 90j:52010
- Frankl, Peter (with Rödl, V.) A partition property of simplices in Euclidean space. 90i:52015
- Friedel, J. (with Widmayer, P.) A simple proof of the Steiner ratio conjecture for five points. 90h:52009
- Goodman, Jacob E. (with Pach, János; Yap, Chee-Keng) Mountain climbing, ladder moving, and the ring-width of a polygon. 90h:52010
- Gysin, Liliana Mabel Über die Realisierbarkeit gegebener Verteilungstypen durch Streckennetze. [On the realizability of given distribution types by nets of curves] 90g:52008
- Hasan, N. see Edelsbrunner, Herbert; et al. 90h:52016
- Hayward, Ryan (with Rappaport, David; Wenger, Raphael) Some extremal results on circles containing points. 90d:52009
- A note on the circle containment problem. 90d:52011
- Hibi, Takayuki What can be said about pure O -sequences? 90d:52012
- Hickerson, Dean see Erdős, Paul; et al. 90h:52008
- Hong, Da Wei Shortest paths on the surface of a rectangular parallelepiped in n -dimensional space. (Chinese) 90j:52011
- Ihle, Wolfgang (with Stammmler, Ludwig) On the distance of two circles. 90g:52009
- Jamison, R. E. An embedding theorem for planar direction patterns. 90d:52013
- Kasimatis, E. A. Dissections of regular polygons into triangles of equal areas. 90c:52008
- Kern, Walter (with Wanka, Alfred) On a problem about covering lines by squares. 90i:52016
- Leuke, Paul A counterexample to a conjecture of Abbott. 90c:52018
- Ljubić, Dragoslav (with Roudneff, Jean-Pierre; Sturmfels, Bernd) Arrangements of lines and pseudolines without adjacent triangles. 90d:52014
- Loew, Murray see Charit, Raphael; et al. (90d:51002)
- Makai, Endre, Jr. see Tarnai, T. 90m:52010
- Pach, János Delicate symmetry. 90c:52019
- see also Erdős, Paul; et al. 90h:52008 and Goodman, Jacob E.; et al. 90h:52010
- Palásti, Ilona A distance problem of P. Erdős with some further restrictions. 90i:52017
- Lattice-point examples for a question of Erdős. 90j:52012
- Rappaport, David see Hayward, Ryan; et al. 90d:52009
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- Roudneff, Jean-Pierre see Ljubić, Dragoslav; et al. 90d:52014
- Schmerl, James H. see Bárány, I.; et al. 90d:52010
- Seidel, Raimund see Edelsbrunner, Herbert; et al. 90k:52016
- Sharir, Micha see Edelsbrunner, Herbert. 90k:52019
- Shen, Xiao Jun see Edelsbrunner, Herbert; et al. 90k:52016
- Sidney, S. J. see Bárány, I.; et al. 90d:52010
- Skiena, Steven S. see Edelsbrunner, Herbert. 90h:52007
- Stammmler, Ludwig see Ihle, Wolfgang. 90g:52009
- Sturmfels, Bernd see Ljubić, Dragoslav; et al. 90d:52014
- Tarnai, T. (with Makai, Endre, Jr.) A movable pair of tetrahedra. 90m:52010
- Urrutia, Jorge see Bárány, I.; et al. 90d:52010
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- Wenger, Raphael Upper bounds on geometric permutations for convex sets. 90k:52018
- see also Hayward, Ryan; et al. 90d:52009
- Widmayer, P. see Friedel, J. 90h:52009
- Yap, Chee-Keng see Goodman, Jacob E.; et al. 90h:52010

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- Avis, David (with Erdős, Paul; Pach, János) Repeated distances in space. 90k:05068
- (with Mutt) All the facets of the six-point Hamming cone. 90i:51017

- Bisztriczky, T. On separated families of convex bodies. 90k:52003
- Björner, Anders (with Edelman, Paul H.; Ziegler, Günter M.) Hyperplane arrangements with a lattice of regions. 90k:51036
- Chung, Fan R. K. Sphere-and-point incidence relations in high dimensions with applications to unit distances and furthest-neighbor pairs. 90g:52011
- Eckhoff, Jürgen Intersection properties of boxes. I. An upper-bound theorem. 90a:52016
- Edelman, Paul H. see Björner, Anders; et al., 90k:51036
- Erdős, Paul see Avis, David; et al., 90b:05068
- Gelfand, I. M. (with Zeleninskii, A. V.; Kapranov, M. M.) A -discriminants and Cayley-Koszul complexes. 90k:14054
- (with Zeleninskii, A. V.; Kapranov, M. M.) Newton polyhedra of principal A -determinants. 90k:14055
- Goodman, Jacob E. (with Pach, János) Cell decomposition of polytopes by bending. 90c:52013
- Hartshorne, Egbert A theorem on polyhedra which is related to Alexander's separation theorem. 90c:52006
- Kapranov, M. M. see Gelfand, I. M.; et al., 90k:14054 and 90k:14055
- Katchalski, Meir see Alon, Noga; et al., 90k:05129
- Maheer, V. V. Some properties of continuous mappings of spheres and problems in combinatorial geometry. (Russian) (see 90b:00005)
- Mao, Qi Ji see Zuo, Quan Ru, 90k:52007
- Mats, N. E. The universality theorems on the classification problem of configuration varieties and convex polytopes varieties. 90a:52013
- Matt see Avis, David, 90f:51017
- Pach, János see Avis, David; et al., 90b:05068 and Goodman, Jacob E., 90c:52013
- Pavel, Monique ★ Fundamentals of pattern recognition. 90k:68147
- Schellerman, Edward R. see Alon, Noga; et al., 90k:05129
- Toronyan, B. E. Estimates for the number of (F) -separable subsets of a finite set. (Russian. Armenian summary) 90k:05007
- Whiteley, Walter Rigidity and polarity. II. Weaving lines and tensegrity frameworks. 90m:51007
- Wong, Gerhart Epsilon-nets for halflanes. (see 90b:68091)
- Zaks, Joseph On four-colourings of the rational four-space. 90f:05063
- Zeleninskii, A. V. see Gelfand, I. M.; et al., 90k:14054 and 90k:14055
- Ziegler, Günter M. The face lattice of hyperplane arrangements. 90a:52015
- see also Björner, Anders; et al., 90k:51036
- Zuo, Quan Ru (with Mao, Qi Ji) A note on pseudo-symmetric set. 90k:52007
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- Adhikari, Anil (with Pittman, Jim) The shortest planar arc of width 1. 90d:52016
- Ball, Keith Volumes of sections of cubes and related problems. 90f:05063
- (with Pajor, Alain) Convex bodies with few faces. 90m:52011
- Bárány, I. (with Larman, David) Convex bodies, economic cap coverings, random polytopes. 90c:52020
- Beck, A. (with Beck, K.) On a discrete Dido-type question. 90j:52013
- (with Beck, K.) On the second smallest distance between finitely many points on the sphere. 90g:52010
- Beck, K. (with Connelly, R.) Covering curves by translates of a convex set. 90k:52020
- see also Beck, A., 90g:52010 and 90j:52013
- Bezrakov, S. L. Construction of the solutions of a discrete isoperimetric problem in a Hamming space. 90a:52018
- Bollobás, Béla An extension of the isoperimetric inequality on the sphere. 90e:52009
- (with Leader, I.; Radcliffe, A. J.) Reverse Kleitman inequalities. 90f:52017
- Börner, Walter Minimaler Umkugelradius bei vierdimensionalen Simplex mit Einschränkungen für ihre Kanten. [Minimal circumscribed sphere radius for four-dimensional simplices with restrictions on their edges] 90c:52021
- Bourgoin, Richard D. (with Renz, Peter L.) Shortest paths in simply connected regions in \mathbb{R}^2 . 90k:52021
- Busenberg, Stavros see Martelli, Mario, 90k:52025
- Choukha, Raouf Problèmes de Paul Lévy sur les polygones articulés. (English summary) [Problems of Paul Lévy on articulated polygons] 90a:52019
- Chung, Fan R. K. Sphere-and-point incidence relations in high dimensions with applications to unit distances and furthest-neighbor pairs. 90g:52011
- Cieslak, W. (with Gózd, S.) Extremal polygons circumscribed an oval. 90f:52020
- Connelly, R. see Beck, K., 90g:52010
- Diskant, V. I. Making the analogues of a generalized isoperimetric inequality more precise. (Russian) 90a:52020
- Ewald, Günter On the equality case in Alexandrov-Fenchel's inequality for convex bodies. 90d:52017
- Goodey, P. R. (with Groemer, H.) Stability results for first order projection bodies. 90k:52022
- Gózd, S. see Cieslak, W., 90f:52020
- Gritzmann, Peter (with Lassak, Marek) Estimates for the minimal width of polytopes inscribed in convex bodies. 90b:52011
- Groemer, H. On convex bodies that permit packings of high density. 90m:52012
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- Jahnke, Friedrich Inradius und Dicke konvexer Körper aus Optimierungstheoretischer Sicht. [Inradius and thickness of convex bodies from an optimization-theoretical view] 90f:52018
- Kashin, B. S. Parallelepipeds of least volume that contain a convex body. (Russian) 90e:52010
- Klitzler, Ralf (with Roth, Michael) Zur Länge einer ebenen geschlossenen Kurve und des Randes ihrer konvexen Hülle. (English summary) [On the length of a plane closed curve and the boundary of its convex closure] 90a:52021
- Larman, David see Bárány, I., 90c:52020
- Lassak, Marek see Gritzmann, Peter, 90b:52011
- Leader, I. see Bollobás, Béla; et al., 90f:52017
- Lew, John S. (with Quarles, Donald A., Jr.) Optimal inscribed polygons in convex curves. 90k:52023
- Linhart, Johann Über die Varianz der Breite von Zonotopen. [On the variance of width of zonotopes] 90a:52022
- Approximation of a ball by zonotopes using uniform distribution on the sphere. 90m:52013
- Lions, P.-L. (with Pacella, Filomena) Isoperimetric inequalities for convex cones. 90c:52021
- Latwak, Erwin Intersection bodies and dual mixed volumes. 90a:52023
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- Mao, Qi Ji (with Zuo, Quan Ru) The width of a simplex that touches a given sphere. (Chinese. English summary) 90b:52006
- Martelli, Mario (with Busenberg, Stavros) Periods of Lipschitz functions and lengths of closed curves. 90k:52025
- Martini, Horst On inner quermasses of convex bodies. 90g:52012
- Meyer, Mathieu (with Pajor, Alain) On Santaló's inequality. 90b:52012
- Millman, Vitali D. (with Pajor, Alain) Cas limites dans des inégalités du type de Khinchine et applications géométriques. (English summary) [Limit cases of Khinchin-type inequalities and some geometric applications] 90d:52018
- Mitrinović, Dragoslav S. (with Pečarić, Josip E.) On the Erdős-Mordell inequality for a polygon. 90k:52013
- Pacella, Filomena see Lions, P.-L., 90c:52021
- Pajor, Alain see Millman, Vitali D., 90d:52018; Meyer, Mathieu, 90b:52012 and Ball, Keith, 90m:52011
- Pečarić, Josip E. (with Volenec, Vladimir) Interpolation of the Jensen inequality with some applications. 90k:52026
- see also Mitrinović, Dragoslav S., 90b:52013
- Pittman, Jim see Adhikari, Anil, 90d:52016
- Qian, Li Wen (with Wang, Zhen') Logarithmic convexity of the triangular area function Δ_3 . (Chinese) 90d:52019
- Quarles, Donald A., Jr. see Lew, John S., 90k:52023
- Radcliffe, A. J. see Bollobás, Béla; et al., 90f:52017
- Renz, Peter L. see Bourgoin, Richard D., 90k:52021
- Roth, Michael see Klitzler, Ralf, 90a:52021
- Sangwine-Yager, J. R. The missing boundary of the Blaschke diagram. 90a:52024
- Schmitz, Michael Über Wolken aus inkongruenten Kugeln für eine Ebene. [On clouds consisting of incongruent spheres for a plane] 90c:52022
- Schneider, Jürgen Zum isoperimetrischen Problem im hyperbolischen Raum. (English summary) [On the isoperimetric problem in hyperbolic space] 90b:52014
- Schneider, Ralf Gemischte Volumina in Kanalscharen. (English summary) [Mixed volumes in canal classes] 90g:52013
- Stability in the Aleksandrov-Fenchel-Jessen theorem. 90b:52015
- Schramm, Oded On the volume of sets having constant width. 90b:52007
- Scott, Paul R. Properties of axial diameters. 90c:52023
- Šohr, Václav Isoperimetrische Ungleichungen für geschlossene Kurven. (Russian and Czech summaries) [Isoperimetric inequalities for closed curves] 90c:52011
- So, Hui Ming Some geometric inequalities concerning the centroid of a simplex. (Chinese. English summary) 90b:52016
- Uhrin, B. Brunn-Minkowski-Lusternik inequality, its sharpenings, extensions and some applications. (Hungarian summary) 90c:52024
- Volenec, Vladimir see Pečarić, Josip E., 90k:52026
- Wang, Zhen' see Qian, Li Wen, 90d:52019
- Weißbach, Bernulf Schranken für die Dicke der Simplexe. [Bounds for the width of simplices] 90e:52025
- Zhang, Yao Distance formulas and distance inequalities for an n -simplex. (Chinese. English summary) 90f:52019
- Two inequalities for the volume of an n -dimensional simplex. (Chinese) 90c:52026
- Zuo, Quan Ru see Mao, Qi Ji, 90b:52006
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- Arnold, Randolph Zur L^2 -Bestapproximation eines konvexen Körpers durch einen bewegten konvexen Körper. (English summary) [On the L^2 -best approximation of a convex body by a moved convex body] 90m:52005
- Bárány, I. (with Schermer, James H.; Sidney, S. J.; Urrutia, Jorge) A combinatorial result about points and balls in Euclidean space. 90d:52010
- Bayer, D. A. (with Lagarias, J. C.) The nonlinear geometry of linear programming. I. Affine and projective scaling trajectories. 90h:90098a
- (with Lagarias, J. C.) The nonlinear geometry of linear programming. II. Legendre transform coordinates and central trajectories. 90h:90098b
- Beck, K. (with Connelly, R.) Intersection points. 90f:52014
- Boghossian, Artin B. see Abi-Khuzam, Faruk F., 90k:51022
- Carroll, C. E. (with Klamin, M. S.) Inequalities for convex cyclic polygons. 90f:51033
- Cianchi, Andrea On relative isoperimetric inequalities in the plane. (Italian summary) 90c:28007
- Connelly, R. see Beck, K., 90f:52014
- Della, Leonil Increasing paths leading to a face of a convex compact set in a Hilbert space. 90c:52001
- Eckhoff, Jürgen Intersection properties of boxes. I. An upper-bound theorem. 90a:52016
- Edelsbrunner, Herbert (with Skiena, Steven S.) On the number of furthest neighbour pairs in a point set. 90h:52007
- Englisch, H. The circumpolygon with maximal area. 90j:52002
- Feng, Wei Chuan see Yin, Jing Yao, 90f:51031
- Fillman, Paul The largest projections of regular polytopes. 90e:52003
- The extreme projections of the regular simplex. 90f:52012
- Girard, Didier A. (with Valentin, Patrick) Zonotopes and mixtures management. 90c:90064
- Gordon, Y. On Milman's inequality and random subspaces which escape through a mesh in \mathbb{R}^n . 90b:46036
- Grzbiel, Ryszard Extreme symmetric norms on \mathbb{R}^2 . 90b:46037

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 — A note on the circle containment problem. 90d:52011
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 Johnstone, Iain (with Siegmund, David) On Hotelling's formula for the volume of tubes and Naiman's inequality. 90b:52015
 Klamkin, M. S. see Carroll, C. E., 90g:51033
 Klee, Victor see Ha, Te Chiang; et al., 90m:50223
 Lagarias, J. C. see Bayer, D. A., 90h:90098a and 90h:90098b
 Larman, David see Ha, Te Chiang; et al., 90m:50223
 Leichtweiß, Kurt Zur Affingometrie beliebiger konvexer Körper. [On the affine geometry of arbitrary convex bodies] 90a:52005
 Lia, Gen Hong Sine theorems in E^n and their applications. (Chinese. English summary) 90i:51024
 Mao, Qi Ji An inequality for "metric addition". (Chinese) 90j:51024
 Martini, Horst Das Volumen spezieller konvexer Polytope. [The volume of special convex polytopes] 90a:52011
 Megiddo, Nimrod On the ball spanned by balls. 90i:90082
 Nguyen, V. H. see Xia, Zan Quan; et al., 90d:90079
 Parshin, O. V. see Yakovlev, S. V., 90m:90186
 Rabinowitz, Stanley Some metric inequalities for lattice polygons. 90c:52028
 Rappaport, David see Hayward, Ryan; et al., 90d:52009
 Schmerl, James H. see Bárány, I.; et al., 90d:52010
 Schütt, Carsten The isoperimetric quotient and some classical Banach spaces. 90j:46026
 Sidney, S. J. see Bárány, I.; et al., 90d:52010
 Siegmund, David see Johnstone, Iain, 90b:52015
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 Tso, Kaining On symmetrization and Hessian equations. 90f:52009
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 Wagner, Gerald Sala On the product of distances to a point set on a sphere. 90j:11080
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 Yin, Jing Yao (with Feng, Wei Chuan) An inequality for sines of higher-dimensional angles and its application. (Chinese) 90i:51031
 Zucco, Andreana Minimal shell of a typical convex body. 90k:52006

52A43 Lattices and convex bodies [see also 11H06]

- Brian, Michel Points entiers dans les polyèdres convexes. [Lattice points in convex polyhedra] 90d:52020
 DeTemple, Duane (with Robertson, Jack M.) Graphs associated with triangulations of lattice polygons. 90b:52017
 Gruber, Peter M. Minimal ellipsoids and their duals. 90c:52027
 Lubensky, T. C. Symmetry, elasticity, and hydrodynamics in quasiperiodic structures. (see 90g:82003)
 Rabinowitz, Stanley Some metric inequalities for lattice polygons. 90c:52028
 — A theorem about collinear lattice points. 90j:52014
 Robertson, Jack M. see DeTemple, Duane, 90b:52017

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- Bak, Per (with Goldman, Alan I.) Quasicrystallography. (see 90g:82003)
 Banar, V. V. Bravais types of lattices of three-dimensional Minkowski space whose holohedron contains rotations around only one real axis. (Russian) (see 90b:11001)
 Bertaut, Erwin-Félix Métrique des opérateurs de symétrie cristallographique transitifs dans les espaces E^n . (English summary) [Metrics of transitive crystallographic symmetry operators in the spaces E^n] 90k:20081
 Birman, Joseph L. see La, Jian Ping, 90j:20109
 Bitter, Michael Some properties of the unimodular group in \mathbb{R}^2 . 90g:11055
 Erdős, Paul (with Gruber, Peter M.; Hammer, Joseph) ★ Lattice points. 90g:11081
 Florian, August Verteilung von Punkten in einem Quadrat. [Distribution of points in a square] 90k:52017
 Goda, Masaki (with Kubo, Haruhiko) A family of Fibonacci lattices. 90m:82044
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 Goldman, Alan I. see Bak, Per, 90g:82003
 Gruber, Boris Reduced cells based on extremal principles. 90f:11051
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 Khramov, A. The densest packing by balls of a single-type of \mathbb{R}^n for $n \leq 24$. (Russian) (see 90c:00005)
 Koch, Helmut (with Venkov, B. B.) Über ganzzahlige unimodulare euklidische Gitter. [On integral unimodular Euclidean lattices] 90g:11082
 Kubo, Haruhiko see Goda, Masaki, 90m:82044
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52A45 Packing, covering, tiling [see also 05B40, 05B45, 11H31, 51-XX]

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- (with Lindenstrauss, J.; Milman, Vitali D.) Approximation of zonoids by zonotopes. 90g:46020
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52A55 Spherical and hyperbolic convexity

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52A99 Miscellaneous topics

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53-XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

53-01 Elementary exposition; textbooks

- (Chern, Shing Shen) see Hopf, Heinz, 90f:53001
- Dubrovina, B. A. (with Novikov, S. P.; Fomenko, A. T.) ★ Geometria contemporanea. Metodi e applicazioni. Vol. I. (Italian) [Modern geometry. Methods and applications. Vol. I] 90h:53001a
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- Francaviglia, Mauro ★ Elements of differential and Riemannian geometry. 90a:53001
- (Gray, John W.) see Hopf, Heinz, 90f:53001
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- Postnikov, M. M. ★ Дифференциальная геометрия. (Russian) [Differential geometry] 90h:53002
- Stoker, J. J. ★ Differential geometry. 90f:53002
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- Items with secondary classifications in 53-01
- Coxeter, H. S. M. ★ Introduction to geometry. 90a:51001

53-02 Advanced exposition (research surveys, monographs, etc.)

- Cordero, Luis A. (with Dodson, C. T. J.; de León, Manuel) ★ Differential geometry of frame bundles. 90d:53001
- Dodson, C. T. J. see Cordero, Luis A.; et al., 90d:53001
- de León, Manuel see Cordero, Luis A.; et al., 90d:53001
- White, Brian Cabell. Some recent developments in differential geometry. 90k:53003
- Items with secondary classifications in 53-02
- (Atiyah, Michael) see Hodge, W. V. D., 90g:58001
- Hodge, W. V. D. ★ The theory and applications of harmonic integrals. 90g:58001
- Palais, Richard S. (with Terng, Chuu-Lian) ★ Critical point theory and submanifold geometry. 90c:53143
- Salamon, Simon ★ Riemannian geometry and holonomy groups. 90g:53058
- Terng, Chuu-Lian see Palais, Richard S., 90c:53143

53-03 Historical (must also be assigned at least one classification number from Section 01)

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- Akivis, M. A. (with Tikhonov, V. A.) A summary of the scientific research of Vyacheslav Timofeevich Bazylev. (Russian) 90j:01036
- (Bazylev, V. T.) see Akivis, M. A., 90j:01036
- Bliznikas, V. I. (with Norden, A. P.; Shapukov, B. N.; Shirokov, A. P.) The scientific legacy of Boris Lukich Laptev (23.04.1905–15.01.1989). (Russian) 90j:01047
- Borgato, Maria Teresa (with Ferreira, Arturo Vaz) Giuseppe Vitali: mathematical research and academic activity after 1918. (Italian) 90c:01033
- Charlton, T. M. An extension of Maxwell's theory of pin-jointed frameworks by M. W. Crofton. F. R. S. 90b:01029
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- (Sandovici, Profta) see Tarjnik, M., 90f:53037
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- Tarín, M. Couples des connexions sur des fibrés vectoriels. Sur un travail inédit de Profira Sandovici (1927-1980). [Pairs of connections on vector bundles. On an unpublished work of Profira Sandovici (1927-1980)] 90i:53037
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- Laptev, B. L. see Bliznikas, V. I.; et al., 90j:01047

53-04 Explicit machine computation and programs (not the theory of computation or programming)

- Mills, Harry S. D. (with Vernon, Micheal H.) Using Masyima to calculate the extrinsic geometry of a tube in a Riemannian manifold. 90e:53001
- Vernon, Micheal H. see Mills, Harry S. D., 90e:53001

Items with secondary classifications in 53-04

- Callahan, Michael (with Hoffman, David A.; Meeks, William H., III) Embedded minimal surfaces with an infinite number of ends. 90b:53005
- Hildebrand, Martin (with Weeks, Jeffrey) A computer generated census of cusped hyperbolic 3-manifolds. 90f:57043
- Hoffman, David A. see Callahan, Michael; et al., 90b:53005
- Meeks, William H., III see Callahan, Michael; et al., 90b:53005
- Weeks, Jeffrey see Hildebrand, Martin, 90f:57043

53-06 Proceedings, conferences, etc.

- (Amir, M. A.) see Problems in multidimensional differential geometry and its applications, 90b:53003
- (Atanasyan, L. S.) see Geometry of imbedded manifolds, 90j:53003
- (Bokan, Neda) see Differential geometry and its applications, 90m:53003
- (Carreras, F. J.) see Differential geometry, 90m:53002
- (Cheng, S.-Y.) see Recent developments in geometry, 90i:53002
- (Chern, Shing Shen) see Global differential geometry, 90d:53003
- (Choi, Hyeon In) see Recent developments in geometry, 90i:53002
- (Comi, Irena) see Differential geometry and its applications, 90m:53003
- (Cordero, Luis A.) see Proceedings: Colloquium on Differential Geometry, 90m:53005
- (Egorov, I. P.) see Motions in generalized spaces, 90a:53004
- (Engliš, P.) see Conference: Geometry and Topology, 90d:53002
- (Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 90j:53002
- (Gil-Medrano, O.) see Differential geometry, 90m:53002
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- (Grushko, P. Ya.) see Differential geometry of spaces with a fundamental group, 90e:53001
- (Hou, Zi Xin) see Differential geometry and topology, 90a:53002
- (Jiang, Bo Ju) see Differential geometry and topology, 90a:53002
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- (Nikić, Jovanka) see Differential geometry and its applications, 90m:53003
- (Ostianu, N. M.) see Problems in geometry, 90g:53001
- (Peng, Jia Gul) see Differential geometry and topology, 90a:53002
- (Pruzanović, Mileva) see Differential geometry and its applications, 90m:53003
- (Rassias, George M.) see Geometry and topology, 90a:53003
- (Reshetnyak, Yu. G.) see All-Union Conference: Geometry "In the Large", 90m:53001
- (Rizzi, Giovanni Battista) see Conference: Geometry, 90j:53001
- (Shiohama, Katsuhiko) see Geometry of manifolds, 90m:53004
- (Stratopoulos, George) see Geometry and topology, 90a:53003
- (Tarín, M.) see Conference: Geometry and Topology, 90d:53002

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- Geometry "In the Large" ★ Всесоюзная Конференция по Геометрии "в Целом". (Russian) [All-Union Conference on Geometry "In the Large"] 90m:53001
- Brasov ★ The Proceedings of the Fifth National Seminar of Finsler and Lagrange Spaces. 90i:53001

Colloquium:

- Differential Geometry ★ Proceedings of the Sixth International Colloquium on Differential Geometry. 90m:53005

Conference:

- Differential Geometry and its Applications ★ Differential geometry and its applications. 90m:53003
- Geometry ★ Geometry Conference. 90j:53001
- Geometry and Topology ★ The XVIIIth National Conference on Geometry and Topology. 90d:53002

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Geometry and Topology ★ Differential geometry and topology. 90a:53002

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- (Doebner, H.-D.) see Proceedings: Conference on Differential Geometric Methods in Theoretical Physics, 90i:00004
- (Hennig, J. D.) see Proceedings: Conference on Differential Geometric Methods in Theoretical Physics, 90i:00004
- (Souček, Vladimír) see Proceedings: School on Geometry and Physics, 90d:00042
- (Stepanov, N. V.) see Differential geometry of families of lines and surfaces, 90m:00019

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School on Geometry and Physics ★ Proceedings of the Winter School on Geometry and Physics. 90d:00042

School:

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Seminar:

Spectral Theory and Geometry ★ Séminaire de Théorie Spectrale et Géométrie. Année 1983-1984. (French) [Seminar on Spectral Theory and Geometry. Year 1983-1984] 90j:58001

— ★ Séminaire de Théorie Spectrale et Géométrie. No. 4. Année 1985-1986. (French) [Seminar on Spectral Theory and Geometry. No. 4. Year 1985-1986] 90m:58220

— ★ Séminaire de Théorie Spectrale et Géométrie. No. 6. Année 1987-1988. (French) [Seminar on Spectral Theory and Geometry. No. 6. Year 1987-1988] 90m:58222

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53Axx Classical differential geometry

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- Cieliebak, W. On space curves of constant width. (Polish summary) 90c:53003
- Corsich, Gustavo (with Porta, Horacio) Total curvature of nondifferentiable curves. 90c:53004
- Denisko, S. V. A mapping of curves. (Ukrainian. Russian summary) (Not in MR)
- Firby, P. A. Separating sets as envelopes. 90c:53005
- Giering, Oswald Über Ellipten und mit ihnen verknüpfte Mittelpunktskurven. [On ovals and center point curves connected with them] 90f:53004
- Han, Long Jun Application of the Cesàro method to curves on a sphere. (Chinese. English summary) 90g:53002
- Hannachi, Messaoud Courbure généralisée ou finesse des courbes planes. [Generalized curvature or fineness of plane curves] (see 90f:53116)
- Kur'minykh, A. V. A curve in \mathbb{R}^4 that is homeomorphic to a straight line and that intersects every unbounded curve of bounded curvature. 90c:53002
- Lee, Man Yew Curves in four-dimensional space. 90c:53003
- Mond, David Singularities of the tangent developable surface of a space curve. 90c:53006
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- Tezin, A. M. Curves and differential equations in a bipolar coordinate system. (Russian) (see 90f:50001)
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- Chillingworth, D. The ubiquitous astroid. 90m:58146
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- Rodrigues Costa, Sueli I. On closed twisted curves. 90h:53009
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- Sohr, Václav Isoperimetrische Ungleichungen für geschlossene Kurven. (Russian and Czech summaries) [Isoperimetric inequalities for closed curves] 90c:52011
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- Walser, Hans Ein Schließungssatz der Elementargeometrie. [A closure theorem of elementary geometry] 90a:51027a
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- Weiss, Gunter *see* Wyss, R., 90a:51027b
- Wu, Wen Jun A mechanization method of geometry and its applications. II. Curve pairs of Bertrand type. 90h:03016
- Wyss, R. (with Weiss, Gunter) Comments on: "A closure theorem of elementary geometry" [Elem. Math. 43 (1988), no. 6, 161–169; MR 90a:51027a] by Hans Walser. (German) 90a:51027b
- Yarakmedov, G. A. Generalized asymptotic curves. (Russian) 90c:41067
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- Baikoussis, Christos (with Koufogiorgos, Themis) Ovaloids with prescribed curvature of the second fundamental form. 90c:53006
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- Bykhoravskii, E. B. The Poincaré inequality for two-dimensional manifolds without boundary. An elementary proof. 90c:53005
- Chen, Wen Xiong A Trudinger inequality on surfaces with conical singularities. 90f:53004
- Denisko, S. V. (with Kubiv, S. I.) Reproduction by means of mechanisms of developable surfaces, for each of which the directrices are two circles. (Ukrainian. Russian summary) (Not in MR)

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- White, J. A. *see* Bay, Z., 90c:53007
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- Barsky, Brian A. Introducing the rational beta-spline. (see 90d:51002)
- Bloor, M. I. G. (with Wilson, M. J.) Blend design as a boundary-value problem. (see 90f:65009)
- (Chern, Shing Shen) *see* Hopf, Heinz, 90f:53001
- Chernyskaya, I. A. Infinitesimal second-order bendings of hyperplane surfaces in E^4 . (Russian) 90d:53006
- Cummings, F. W. On surface geometry coupled to morphogen. 90b:92013
- (Gray, John W.) *see* Hopf, Heinz, 90f:53001
- Gun, Kang Hui On the p -approximate property for hypersurfaces of \mathbb{R}^n . 90f:42013
- Hagen, Hans Computer aided geometric design—methods and applications. 90f:65030
- Hopf, Heinz ★ Differential geometry in the large. 90f:53001
- Hoschek, J. (with Wassum, P.; Schneider, F.-J.) Optimal approximate conversion of spline curves and spline surfaces. Spline approximation of offset curves. (see 90d:51002)
- Ivanova-Karatopraklieva, I. (with Sabitov, I. Kh.) Second-order infinitesimal bendings of surfaces of revolution with flattening at the pole. 90d:53075
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- Ma, Zhi Sheng Complete surfaces in H^3 with a constant principal curvature. 90c:53014
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- Rahman, Mohammad S. The Gauss-Bonnet theorem for a general region on a surface. 90c:53051
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- Schneider, F.-J. *see* Hoschek, J.; et al., (90d:51002)
- Stepanenko, P. T. *see* Vakarchuk, B. S., 90f:35287
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- Vakarchuk, B. S. (with Stepanenko, P. T.) Reconstruction of space curves by means of arcs of Darboux circles on cylindrical surfaces. (Russian) 90f:35287
- (Voss, Konrad) *see* Hopf, Heinz, 90f:53001
- Walser, Hans Ein Schließungssatz der Elementargeometrie. [A closure theorem of elementary geometry] 90a:51027a
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- Weiss, John Bäcklund transformations, focal surfaces and the two-dimensional Toda lattice. 90c:58194
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- Wyss, R. (with Weiss, Gunter) Comments on: "A closure theorem of elementary geometry" [Elem. Math. 43 (1988), no. 6, 161–169; MR 90a:51027a] by Hans Walser. (German) 90a:51027b
- Zally, C. Existence locale de solutions C^∞ pour des équations de Monge-Ampère changeant de type. (English summary) [Local existence of C^∞ solutions for Monge-Ampère equations of changing type] 90h:35093
- Zund, J. D. Tensorial methods in classical differential geometry. I. Basic principles. 90d:53025
- Tensorial methods in classical differential geometry. II. Basic surface tensors. 90d:53026

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- Alekseeva, L. I. On the geometry of mappings of three-dimensional Euclidean spaces.

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- Arutyunyan, S. Kh. Some classes of submanifolds of the pseudo-Euclidean space $E_{2(n+1)}^{n+1}$. (Russian) 90f:53005
- Borisenko, A. A. (with Ushakov, V. G.) A characteristic property of multidimensional cylindrical surfaces. (Russian) 90c:53011
- Bushmelev, A. V. Isometric embeddings of an infinite flat Möbius strip and a flat Klein bottle in \mathbb{R}^4 . 90h:53007
- de Carvalho, F. J. Craveiro (with Robertson, S. A.) Convex hypersurfaces with transnormal horizons are spheres. 90h:53006
- Chernyavskaya, I. A. Infinitesimal second-order bendings of hyperplane surfaces in E^4 . (Russian) 90d:53006
- Denisko, S. V. Some means of mapping developable surfaces. (Ukrainian. Russian summary) (Not in MR)
- Fomenko, V. T. A class of transformations of minimal surfaces. (Russian) 90c:53012
 — (with Zubkov, A. N.) Surfaces of codimension 2 with zero normal torsion that carry a conjugate coordinate net in a Euclidean space. 90c:53013
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- Georgiou, Chr. (with Hasanis, Th.; Koutroufotis, D.) On the caustic of a convex mirror. 90g:53005
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- Ignatenko, V. F. Some classes of algebraic surfaces with an infinite set of planes of oblique symmetry. (Russian) 90g:53006
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- Karp, A. P. The Minkowski problem for nonclosed two-dimensional surfaces in E^4 . (Russian) 90d:53007
- Kokarev, V. N. An estimate for the principal radii of curvature of a closed convex hypersurface with a given elementary symmetric function of the conditional radii of curvature. (Russian) 90c:53014
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- Kuchina, L. V. An analogue of the Christoffel problem for a two-dimensional surface in a four-dimensional Euclidean space. (Russian) (see 90i:00001)
- Manhart, Friedrich Relativgeometrische Kennzeichnungen Euklidischer Hypersphären. (English summary) [Relative-geometric characterizations of Euclidean hyperspheres] 90h:53007
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- Sedykh, E. I. Lines of curvature of hypersurfaces of n -dimensional quasi-non-Euclidean spaces. (Russian) (see 90c:53001)
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- Ablowitz, M. J. (with Beals, Richard; Tenenblat, Ketil) Addenda and corrigenda to: "On the solution of the generalized wave and generalized sine-Gordon equations" [Stud. Appl. Math. 74 (1986), no. 3, 177–203; MR 88a:35196]. 90f:35169
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- Pinkall, Ulrich Compact conformally flat hypersurfaces. 90a:53071
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- Evdokimova, R. I. The canonical frame of a hypersurface in the space \bar{B}_2^4 . (Russian) 90a:53027
- Gutsul, I. S. (with Makarov, V. S.) Noncomplete three-dimensional manifolds with a locally Lobachevskian metric. (Russian) 90a:53013
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- Lebedeva, G. A. Geodesic submanifolds of a 2-family of lines in Sp_3 . (Russian) (see 90c:53001)
- Makarov, V. S. see Gutsul, I. S., 90a:53013
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- Tsagas, G. (with Papantonios, B. J.) On the rectilinear congruences of Lorentz manifold establishing an area preserving representation. 90a:53023
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- (with Tucker, R. W.) High spin forms. 90a:53017
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- Frescura, F. A. M. Projective spinor geometry and prespace. 90a:53040
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- Lichnerowicz, André Killing spinors according to O. Hijazi and applications. 90a:58175
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- Perjés, Z. Unitary spinor methods in general relativity. 90a:83030
- Plebanski, J. F. (with Przanowski, M.) Null tetrad, spinor and helicity formalisms for all 4-dimensional Riemannian manifolds. I. Null tetrads and spinors. 90a:53185
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- Mikulski, W. M. Continuity of liftings. (Russian and Czech summaries) 90a:58009
- Moiseev, S. A. Curves in a projective space with a nonplanar absolute of special form. (Russian) 90a:53018
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- Ferapontov, E. V. Weakly nonlinear semi-Hamiltonian systems of three differential equations from the point of view of web theory. (Russian. English summary) 90a:53027
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- Kostyrev, G. E. Webs and noninvolution distributions. (Russian) 90a:53032

- Little, John B. On webs of maximum rank. 90j:53023
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- Ferapontov, E. V. Systems of three differential equations of hydrodynamic type with a hexagonal 3-web of characteristics on solutions. 90k:35157
 Smith, J. D. H. Multilinear algebras and Lie's theorem for formal n -loops. 90e:17007

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- Egorov, A. I. Maximally moving metric spaces of vector elements. (Russian) 90k:53033
 Serushkina, G. M. Special nets on the graph of the mapping $f: (\Omega \subset E_n) \rightarrow (\bar{\Omega} \subset \bar{E}_n)$. (Russian) 90k:53034
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- Podesth, Fabio Affine transformations in affine differential geometry. 90j:53011
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- Egorov, A. I. Maximally moving spaces of linear elements of an affine semi-integrable connection. (Russian) 90j:53021
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- Anastasiel, M. Nonlinear connections in Hamilton spaces. 90j:53034
 Atanasiu, Gh. The invariant expression of Hamilton geometry. 90m:53034
 Chakmazyan, A. V. Normal connection in the geometry of framed submanifolds of an affine space. (Russian) 90k:53043
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- Mărginean, S. *see* Enghis, P., 90k:53040 and 90k:53041
- Mihal, M. (with Smaranda, D.) Riemannian subprojective manifolds of $(n-2)$ order. 90j:53029
- Mikesh, I. Letter to the editors: "Estimates for the orders of groups of projective transformations of Riemannian spaces" [Mat. Zametki 43 (1988), no. 2, 256-262; MR 89h:53055]. 90j:53030
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- Rosca, R.** see Buchner, K., 90f:53069
- Rovenski, V. Yu.** The metric structure of ruled and parabolic surfaces in S^n and CP^n . 90m:53070
- Decomposition of ruled and parabolic surfaces. 90c:53146
- Salavessa, Isabel Maria da Costa** Graphs with parallel mean curvature. 90a:53072
- Shen, Yi Bing** see Guo, Xiao Ying, 90h:53065
- Sierra, J. M.** Semi-invariant submanifolds of conformal Kaehler manifolds. 90h:53147
- Singh, Hukam** Closest point of the cut locus to submanifold. 90f:53096
- Smaranda, D.** Pseudo-umbilical and totally real submanifolds of Kaehlerian manifolds with vanishing Bochner curvature tensor. 90c:53148
- Suh, Young Jin** see Aiyama, Reiko; et al., 90c:53129
- Terng, Chuu-Lian** see Palais, Richard S., 90c:53143
- Thorbergsson, Gudlaugur** see Pinkall, Ulrich, 90c:53145
- Tondeur, Philippe** (with Vanhecke, Lieven) Isometric reflections with respect to submanifolds and the Ricci operator of geodesic spheres. 90i:53077
- (with Vanhecke, Lieven) Isometric reflections with respect to submanifolds. 90j:53074
- Tribuzzy, Renato de Azevedo** see Eschenburg, J.-H., 90f:53071
- Urbano, Francisco** Minimal surfaces with low index in the three-dimensional sphere. 90h:53073
- Urbanke, H.** On Pinl's representation of null curves in n dimensions. 90i:53078
- Välijas, M.** see Lamiste, Ü., 90a:53068 and 90f:53093
- Vanhecke, Lieven** see Chen, Bang-Yen, 90d:53063; Tondeur, Philippe, 90i:53077 and 90j:53074
- Vernon, Michael H.** Some families of isoparametric hypersurfaces and rigidity in a complex hyperbolic space. 90d:53069
- Verstraeten, L.** (with Vrancken, Luc) Pinching theorems for C-totally real submanifolds of Sasakian space forms. 90h:53074
- see also Leyssen, J.; et al., 90c:53138
- Vrancken, Luc** see Verstraeten, L., 90h:53074
- Wegner, Bernd** Über das kritische Verhalten zylindrischer Abstandsfunktionen auf Untermannigfaltigkeiten euklidischer Räume. (English summary) [On the critical behavior of cylindrical distance functions on submanifolds of Euclidean spaces] 90h:53075
- Wu, Bao Qiang** Complete totally real submanifolds of CP^n with parallel mean curvature vectors. (Chinese) 90m:53071
- see also Chen, Bang-Yen, 90c:53069
- Wu, Chuan Xi** Remarks on minimal hypersurfaces of constant curvature on a sphere. (Chinese. English summary) 90h:53068
- Xuan, Mao You** Totally umbilical submanifolds in some Riemannian manifolds. (Chinese. English summary) 90g:53069
- Yamaguchi, Seiichi** see Ki, U-Hang; et al., 90a:53066
- Yano, Kentaro** (with Kon, Masahiro) On contact CR submanifolds. 90j:53075
- Zhou, Jia Zu** Some results on surfaces with parallel mean curvature vector. (Chinese. English summary) 90h:53076

Items with secondary classifications in 53C40

Abe, Kinetsu (with Magid, M. A.) Indefinite Kähler submanifolds with positive index of

- relative nullity. 90c:53163
 — (with Magid, M. A.) Indefinite rigidity of complex submanifolds and maximal surfaces. 90c:53075
- Agarwal, Ashok Kumar² see Gupta, I. C., 90c:53066
- Akutsu, Kazuo Existence of maximal hypersurfaces in an asymptotically anti-de Sitter spacetime satisfying a global barrier condition. 90b:53074
- Bagewadi, C. S. see Ravi, B., 90c:53068
- Balkoussis, Christos see Koufogiorgos, Themis, (90m:53003)
- Barbosa, J. L. M. (with Gomes, Jonas de Miranda; Da Silveira, Alexandre M.) Foliation of 3-dimensional space forms by surfaces with constant mean curvature. 90j:53054
- Bucki, Andrzej Infinitesimal conformal variations of invariant submanifolds of an almost r -paracontact manifold of P -Sasakian type. 90c:53083
- de Carvalho, F. J. Craveiro (with Robertson, S. A.) Convex hypersurfaces with transnormal horizons are spheres. 90c:53066
- Cecil, Thomas E. (with Chern, Shiing Shen) Dupin submanifolds in Lie sphere geometry. 90c:53079
- Chen, Bang-Yen ★ A new approach to compact symmetric spaces and applications. 90h:53058
- Chen, Xian Ping Pseudo-umbilical submanifolds in spaces of constant curvature. (Chinese. English summary) 90i:53080
- Chern, Shiing Shen see Cecil, Thomas E., 90i:53079
- Constantinescu, E. (with Smaranda, D.) Totally real and totally quasi-umbilical submanifolds of cosymplectic manifolds with vanishing Bochner tensor. 90h:53037
- Da Silveira, Alexandre M. see Barbosa, J. L. M.; et al., 90j:53054
- D'Atri, Joseph E. (with Dorfmeister, J.) Flat totally geodesic submanifolds of quasisymmetric Siegel domains. 90f:52034
- Donato, Santi Para-Hermitian manifold with exterior recurrent line element splitting. (Italian summary) 90c:53086
- Dong, Tai Heng Submanifolds with flat normal bundle in locally symmetric conformally flat Riemannian manifolds. (Chinese. English summary) 90i:53023
- Dorfmeister, J. see D'Atri, Joseph E., 90f:52034
- Elkholm, E. Curvature of spheres in Minkowski $(n+1)$ -space. 90h:53082
- Flegmann, A. M. The parallel rank of a submanifold of Euclidean space. 90h:57035
- Fu, Joseph H. G. Curvature measures and generalized Morse theory. 90j:53094
- Gomes, Jonas de Miranda see Barbosa, J. L. M.; et al., 90j:53054
- Guo, Xiao Ying Totally real minimal submanifolds with positive curvature. (Chinese) 90c:53072
- Gupta, I. C. (with Agarwal, Ashok Kumar²) On quaternion submanifolds of co-dimension-2. 90c:53066
- Hashimoto, Hideya Some 6-dimensional oriented submanifolds in the octonions. 90d:53044
- Houh, Chong Shi On Chen surfaces in a Minkowski space time. 90c:53165
- Hsi, I Jung A note on compact minimal hypersurfaces in spheres. 90c:53154
- Huang, Xuan Guo Distance-preserving deformations of surfaces with constant mean curvature. (Chinese) 90m:53015
- Husain, S. I. see Shahid, M. Hasan, 90a:53031
- Kon, Masahiro Minimal CR submanifolds of complex space forms. 90c:53156
- Kossowski, Marek The S^2 -valued Gauss maps and split total curvature of a space-like codimension-2 surface in Minkowski space. 90j:53081
- The intrinsic conformal structure and Gauss map of a light-like hypersurface in Minkowski space. 90h:53076
- Kostadinov, G. D. Submanifolds in the fibration of unit spheres of a two-point-homogeneous space. (Russian) 90c:53123
- Koufogiorgos, Themis (with Baikoussis, Christos) Totally umbilical surfaces in a space form. (see 90m:53003)
- Kozlov, S. E. Estimates for the areas of spherical representations of two-dimensional surfaces in Riemannian manifolds. (Russian) 90h:53076
- Lee, Jeffrey M. Eigenvalue comparison for tubular domains. 90k:58223
- Lee, Sungyun Kinematic formula and tube formula in space of constant curvature. 90m:53079
- Lin, Jun Min (with Xia, Chang Yu) Geometric and topological obstructions to minimal hypersurfaces in $S^3(1)$. (Chinese) 90c:53099
- Magid, M. A. see Abe, Kinetsu, 90c:53163 and 90g:53075
- Maksym, M. (with Zmurek, A.) On the generalized 3-structures induced on the hypersurface in Riemannian manifold. (Russian and Polish summaries) 90d:53045
- Manolescu, I. The geometry of some remarkable relativistic models. 90a:53084
- Mennings, Nadine L. Immersions of positively curved manifolds into manifolds with curvature bounded above. 90g:53071
- Mihal, I. Almost CR-submanifolds of a manifold with a Sasakian 3-structure. 90a:53054
- Miyazaki, Reiko Dupin hypersurfaces and a Lie invariant. 90i:53083
- (Nagano, Tadashi) see Chen, Bang-Yen, 90h:53058
- Ornea, Liviu Complex hypersurfaces with planar geodesics in generalized Hopf manifolds. 90g:53072
- Pant, Jaya see Singh, C. B., 90g:53048
- Papuc, Dan I. About the global rigidity of submanifolds of certain homogeneous spaces. 90c:53125
- Pedit, Franz J. Isometric embeddings of spherical spaceforms with cyclic fundamental groups. 90c:53074
- Pinkall, Ulrich (with Thorbergsson, Gudlaugur) Taut 3-manifolds. 90j:57022
- Ravi, B. (with Bagewadi, C. S.) Invariant submanifolds in a conformal K -contact Riemannian manifold. 90k:53068
- Robertson, S. A. see de Carvalho, F. J. Craveiro, 90c:53066
- Romero, Alfonso ★ Differential geometry of complex hypersurfaces in an indefinite complex space form. 90k:53105
- Rotondaro, Giovanni On the H -theorem for hypersurfaces. 90h:53013
- Sakamoto, Kunio Constant isotropic surfaces in 5-dimensional space forms. 90c:53161
- Shahid, M. Hasan (with Husain, S. I.) Generic submanifolds of a locally conformal Kähler manifold. 90a:53031
- Shavokhina, N. S. A harmonic nonsymmetric metric, Born-Infeld equations and minimal surfaces. (Russian) 90j:53078
- Singh, C. B. (with Pant, Jaya) Infinitesimal variation of hypersurfaces of an almost r -contact hyperbolic structure manifold. 90g:53048
- Smaranda, D. see Constantinescu, E., 90h:53037
- Song, Hong Zao see Wu, Bao Qiang, 90d:53074
- Saenhe, J. Pairs of totally geodesic submanifolds in symmetric spaces associated with some isometric actions. 90m:53066
- Tasaki, Hiroyuki Calibrated geometries in quaternionic Grassmannians. 90c:53128
- Thorbergsson, Gudlaugur see Pinkall, Ulrich, 90j:57022
- Wang, Hong² Some global pinching theorems for submanifolds of a sphere. (Chinese) 90c:53060
- Wang, Jia Contact CR-submanifolds of a Sasakian space form $\bar{M}(c)$. (Chinese. English summary) 90i:53058
- Wu, Bao Qiang (with Song, Hong Zao) A note on totally real n -dimensional minimal submanifolds of CP^n . (Chinese. English summary) 90d:53074
- Wu, Chuan Xi A characterization of the Clifford minimal hypersurfaces. (Chinese. English summary) 90g:53073
- Xia, Chang Yu see Lin, Jun Min, 90c:53099
- Yan, Chi-Ming Affine conormal of convex hypersurfaces. 90d:53018
- Zmurek, A. see Maksym, M., 90d:53045

53C42 Immersions (minimal, prescribed curvature, tight, etc.) [see also 49F10, 53A10, 57R40, 57R42]

- Aminov, Yu. A. Isometric immersions of domains of n -dimensional Lobachevskii space into Euclidean spaces with a flat normal connection. A model of a gauge field. 90h:53095
- Asperti, Antonio Carlos (with Dajczer, M.) Conformally flat Riemannian manifolds as hypersurfaces of the light cone. 90g:53070
- Generic minimal surfaces. 90a:53073
- Baikoussis, Christos see Koufogiorgos, Themis, (90m:53003)
- Bolton, J. (with Woodward, L. M.) On the Simon conjecture for minimal immersions with S^1 -symmetry. 90d:53070
- (with Woodward, L. M.) On immersions of surfaces into space forms. 90c:53149
- Cecil, Thomas E. (with Chern, Shiing Shen) Dupin submanifolds in Lie sphere geometry. 90i:53079
- Chen, Xian Ping Pseudo-umbilical submanifolds in spaces of constant curvature. (Chinese. English summary) 90i:53080
- Cheng, Qing Ming Complete hypersurface minimally immersed in a unit sphere. 90h:53069
- (with Wang, Yuan Da) Complete Riemannian manifold minimally immersed in a unit sphere $S^{n+p}(1)$. 90d:53071
- Chern, Shiing Shen see Cecil, Thomas E., 90i:53079
- Chi, Quo-Shin (with Zheng, Yunbo) Rigidity of pseudo-holomorphic curves of constant curvature in Grassmann manifolds. 90m:53072
- Dajczer, M. see Asperti, Antonio Carlos, 90g:53070
- Delanoë, Ph. Réalisations globalement régulières de disques strictement convexes dans les espaces d'Euclide et de Minkowski par la méthode de Weingarten. (English summary) [Globally smooth realizations, by the Weingarten method, of strictly convex disks in Euclidean and Minkowski spaces] 90f:53097
- Dragomir, Sorin (with Grimaldi, Renata) Isometric immersions of Riemann spaces in a real Hopf manifold. 90j:53076
- Ecker, Klaus (with Huisken, Gerhard) Immersed hypersurfaces with constant Weingarten curvature. 90c:53150
- Eschenburg, J.-H. (with Tribuzy, Renato de Azevedo) Constant mean curvature surfaces in 4-space forms. 90a:53074
- Ferus, Dirk (with Pinkall, Ulrich) Constant curvature 2-spheres in the 4-sphere. 90c:53151
- Fiedler, Thomas Twistor holomorphic immersions of real surfaces into Kähler surfaces. 90b:53070
- Friedrich, Th. The geometry of t -holomorphic surfaces in S^4 . 90a:53075
- Fujimoto, Hirokazu On the value distribution of the Gauss map of minimal surfaces in R^n . (Japanese) 90f:53098
- Gauchman, Hillel Pinching theorems for totally real minimal submanifolds of $CP^n(c)$. 90c:53071
- Gluck, Herman (with Morgan, Frank; Ziller, W.) Calibrated geometries in Grassmann manifolds. 90h:53077
- Grimaldi, Renata see Dragomir, Sorin, 90j:53076
- Guo, Xiao Ying Totally real minimal submanifolds with positive curvature. (Chinese) 90c:53072
- Han, Chong-Kyu Regularity of isometric immersions of positively curved Riemannian manifolds and its analogy with CR geometry. 90c:53152
- Regularity of certain rigid isometric immersions of n -dimensional Riemannian manifolds into R^{n+1} . 90i:53081
- Hebda, James J. The possible cohomology of certain types of taut submanifolds. 90c:53153
- Hsiang, Wu-teh (with Hsiang, Wu-Yi) On the uniqueness of isoperimetric solutions and imbedded soap bubbles in noncompact symmetric spaces. I. 90h:53078
- Hsiang, Wu-Yi see Hsiang, Wu-teh, 90h:53078
- Hsi, I Jung A note on compact minimal hypersurfaces in spheres. 90c:53154
- Huang, Xuan Guo Generalized Clifford tori in S^3 with prescribed mean curvature. (Chinese) 90h:53079
- Isometric deformation between surfaces with constant mean curvature. 90k:53096
- Huisken, Gerhard see Ecker, Klaus, 90c:53150
- Hvidsten, Michael D. Volume and energy stability for isometric minimal immersions. 90c:53155
- Jensen, Gary R. (with Rigoli, M.) Minimal surfaces in spheres by the method of moving frames. 90i:53082
- (with Rigoli, M.) Harmonic Gauss maps. 90c:53073
- Kon, Masahiro Minimal CR submanifolds of complex space forms. 90c:53156
- On some generic minimal submanifolds of an odd-dimensional sphere. 90b:53071
- Koufogiorgos, Themis (with Baikoussis, Christos) Totally umbilical surfaces in a space form. (see 90m:53003)
- Labourie, François Immersions isométriques elliptiques et courbes pseudo-holomorphes. [Elliptic isometric immersions and pseudoholomorphic curves] 90k:53097

- Lee, Chong Hee On stable minimal surfaces in three-dimensional manifolds of nonnegative scalar curvature. 90j:53077
- Le Hong Van Minimal surfaces in homogeneous spaces. 90a:53076
- Minimal Φ -Lagrangian surfaces in almost Hermitian manifolds. (Russian) 90k:53098
- Lin, Jun Min (with Xia, Chang Yu) Geometrical and topological obstructions of minimal hypersurfaces in $S^3(1)$. 90b:53072
- (with Xia, Chang Yu) Geometric and topological obstructions to minimal hypersurfaces in $S^3(1)$. (Chinese) 90f:53099
- Mennings, Nadine L. Immersions of positively curved manifolds into manifolds with curvature bounded above. 90g:53071
- Miyazaki, Reiko Correction of complete hypersurfaces in the space form with three principal curvatures. 90b:53080
- Dupin hypersurfaces and a Lie invariant. 90f:53083
- Moore, John Douglas (with Noronha, Maria Helena) Isometric immersions with congruent Gauss maps. 90m:53073
- Morgan, Frank see Gluck, Herman; et al., 90h:53077
- Musso, Emilio Locally conformally Kähler submersions. (Italian. English summary) 90f:53100
- Noronha, Maria Helena see Moore, John Douglas, 90m:53073
- Ohnita, Yoshihiro Minimal surfaces with constant curvature and Kähler angle in complex space forms. 90c:53157
- Okayasu, Takashi On the instability of minimal submanifolds in Riemannian manifolds of positive curvature. 90c:53158
- Ornea, Liviu Complex hypersurfaces with planar geodesics in generalized Hopf manifolds. 90g:53072
- Palmer, Bennett Isothermic surfaces and the Gauss map. 90a:53077
- Pedit, Franz J. Isometric embeddings of spherical spaceforms with cyclic fundamental groups. 90c:53074
- Pinkall, Ulrich see Ferus, Dirk, 90c:53151
- Rademacher, Hans-Bert Conformal and isometric immersions of conformally flat Riemannian manifolds into spheres and Euclidean spaces. 90c:53159
- Rigoli, M. see Jensen, Gary R., 90c:53073 and 90i:53082
- Ros, Antonio Compact hypersurfaces with constant higher order mean curvatures. 90c:53160
- Sabitov, I. Kh. Isometric immersions of the Lobachevskii plane in E^4 . 90k:53099
- Sakamoto, Kunio Constant isotropic surfaces in 5-dimensional space forms. 90c:53161
- Sharokhina, N. S. A harmonic nonsymmetric metric, Born-Infeld equations and minimal surfaces. (Russian) 90j:53078
- Shen, Chun Li A global pinching theorem of minimal hypersurfaces in the sphere. 90c:53162
- Shen, Yi Bing Stability of totally real minimal submanifolds. 90i:53084
- Song, Hong Zao see Wu, Bao Qiang, 90d:53074
- Tribary, Renato de Azevedo see Eschenburg, J.-H., 90a:53074
- Umehara, Masaaki A characterization of compact surfaces with constant mean curvature. 90d:53072
- Wang, Qi Ming On totally geodesic spheres in Grassmannians and $O(n)$. 90f:53101
- Wang, Yuan Da see Cheng, Qing Ming, 90d:53071
- Wolfson, J. G. Minimal surfaces in Kähler surfaces and Ricci curvature. 90d:53073
- Woodward, L. M. see Bolton, J., 90c:53149 and 90d:53070
- Wu, Bao Qiang (with Song, Hong Zao) A note on totally real n -dimensional minimal submanifolds of CP^n . (Chinese. English summary) 90d:53074
- Wu, Chuan Xi A characterization of the Clifford minimal hypersurfaces. (Chinese. English summary) 90g:53073
- Xia, Chang Yu see Lin, Jun Min, 90b:53072 and 90f:53099
- Zheng, Yunbo see Chi, Quo-Shin, 90m:53072
- Ziller, W. see Gluck, Herman; et al., 90h:53077
- Items with secondary classifications in 53C42
- Abe, Kinetsu (with Magid, M. A.) Indefinite rigidity of complex submanifolds and maximal surfaces. 90g:53075
- Anderson, Michael T. (with Rodriguez, Lucio) Minimal surfaces and 3-manifolds of nonnegative Ricci curvature. 90c:53097
- Balkoussis, Christos (with Koufogiorgos, Themis) On convex hypersurfaces in a space form. 90c:53130
- Bejan, Cornelia-Liviu On harmonic maps between semi-Riemannian manifolds. 90j:58033
- Beltagy, M. A. New results on athwart immersions. (Arabic summary) 90g:57026
- Athwart immersions with codimension $p \geq 2$ into Euclidean space. 90c:57057
- Besson, Gérard Propriétés génériques des fonctions propres et multiplicité. [Generic properties of eigenfunctions, and multiplicity] 90k:58226
- Coghlan, Leslie Tight stable surfaces. II. 90k:57037
- Some general constructions of tight mappings. 90k:57038
- (with Itokawa, Yoe) On the sectional curvature of compact hypersurfaces. 90h:53062
- Deshmukh, Sharief (with Shahid, M. Hasan) Nucleus of nearly Kähler manifolds. (Arabic summary) 90f:53064
- Dierkes, Ulrich A geometric maximum principle for surfaces of prescribed mean curvature in Riemannian manifolds. (German and Russian summaries) 90g:53007
- Fernández, Luis M. Submanifolds in toroidal bundles. 90m:53068
- Flegmann, A. M. The parallel rank of a submanifold of Euclidean space. 90k:57035
- Frenkel, Katia Rosenfeld Stable complete surfaces with constant mean curvature. 90c:53019
- Góes, Célia C. (with Simões, Plínio A. Q.) The generalized Gauss map of minimal surfaces in H^p and H^q . 90g:53009
- Gomes, Jonas de Miranda Spherical surfaces with constant mean curvature in hyperbolic space. 90h:53009
- Gromov, Mikhail L. ★ Partial differential relations. 90a:58201
- Hoffman, David A. New examples of singly-periodic minimal surfaces and their qualitative behavior. 90m:53014
- Hou, Zi Xin see Peng, Jia Gui, 90g:53068
- Ishihara, Tōru Maximal spacelike submanifolds of a pseudo-Riemannian space of constant curvature. 90d:53080
- Itakawa, Takahiro A characterization of the generalized Veronese surfaces. 90a:53013
- Itokawa, Yoe see Coghlan, Leslie, 90h:53062
- Kon, Masahiro Minimal CR submanifolds immersed in a complex projective space. 90j:53070
- Koufogiorgos, Themis see Balkoussis, Christos, 90c:53130
- Kurose, Takashi Dual connections and affine geometry. 90k:53014
- Kusner, Rob Comparison surfaces for the Willmore problem. 90c:53013
- Labourie, François Existence et compacité d'immersions isométriques elliptiques. [Existence and compactness of elliptic isometric immersions] 90k:53100
- Lin, Jun Min (with Xia, Chang Yu) Global pinching theorems for even-dimensional minimal submanifolds in the unit spheres. 90f:53048
- Liu, Ji Zhi The codimension of Bochner-Kähler submanifolds. (Chinese. English summary) 90h:53069
- Ma, Zhi Sheng Complete surfaces in H^3 with a constant principal curvature. 90c:53014
- Maeda, Sadahiro (with Ohnita, Yoshihiro) Helical geodesic immersions into complex space forms. 90h:53067
- Maeda, Yoshiaki see Nakamura, Gen, 90f:58171
- Magid, M. A. see Abe, Kinetsu, 90g:53075
- Markvorsen, Steen On the mean exit time from a minimal submanifold. 90a:58190
- Miklyukov, V. M. (with Tkachev, V. G.) Some properties of tube minimal surfaces of arbitrary codimension. (Russian) 90j:53007
- Mo, Xiao Huan Submanifolds with parallel mean curvature vector in spaces of constant curvature. (Chinese) 90h:53071
- Montiel, Sebastián An integral inequality for compact spacelike hypersurfaces in de Sitter space and applications to the case of constant mean curvature. 90c:53167
- Morgan, Frank The torus lemma on calibrations, extended. 90c:49081
- Nakamura, Gen (with Maeda, Yoshiaki) Local smooth isometric embeddings of low-dimensional Riemannian manifolds into Euclidean spaces. 90f:58171
- Nance, Dana A class of weakened section Lagrangian calibrations. 90g:49032
- Ohnita, Yoshihiro see Maeda, Sadahiro, 90h:53067
- Peng, Jia Gui (with Hou, Zi Xin) A remark on the isoparametric polynomials of degree 6. 90g:53068
- Pinkall, Ulrich (with Thorbergsson, Gudlaugur) Taut 3-manifolds. 90j:57022
- Pitig, Gh. Sur certaines sous-variétés d'une variété quaternionique. [On certain submanifolds of a quaternionic manifold] 90d:53068
- A property of tori T^2 and T^3 immersed in spheres. (Romanian summary) 90j:53073
- Ripoll, Jaime B. Uniqueness of minimal rotational surfaces in S^3 . 90b:53012
- Rodriguez, Lucio see Anderson, Michael T., 90c:53097
- Salamon, Simon Degrees of minimal surfaces in 4-manifolds. 90j:58036
- Salavessa, Isabel Maria da Costa Graphs with parallel mean curvature. 90a:53072
- Santini, A. Total tension of a map and pseudo-umbilical submanifolds. (Italian summary) 90m:58034
- Shahid, M. Hasan see Deshmukh, Sharief, 90f:53064
- Sharpe, R. W. A proof of the Chern-Lashof conjecture in dimensions greater than five. 90h:57036
- Simões, Plínio A. Q. see Góes, Célia C., 90g:53009
- Thorbergsson, Gudlaugur see Pinkall, Ulrich, 90j:57022
- Tkachev, V. G. see Miklyukov, V. M., 90j:53007
- Urbantke, H. Classical strings and minimal surfaces. 90h:53014
- Wood, John C. Explicit construction and parametrization of harmonic two-spheres in the unitary group. 90k:58055
- Wu, Chuan Xi Remarks on minimal hypersurfaces of constant curvature on a sphere. (Chinese. English summary) 90h:53068
- Xia, Chang Yu see Lin, Jun Min, 90b:53072 and 90f:53099
- Zhang, Shao Ping On complete minimal immersion $\chi: \mathbb{R}P^2 \rightarrow (a, b) \rightarrow \mathbb{R}^3$ with total curvature -10π . 90d:53016
- Zheng, Yunbo Quantization of curvature of harmonic two-spheres in Grassmann manifolds. 90h:58055
- Zhou, Jia Zu Some results on surfaces with parallel mean curvature vector. (Chinese. English summary) 90h:53076

53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)

- Aleksandrov, V. A. Remarks on Sabitov's conjecture on volume rigidity with infinitesimal bending of a surface. 90j:53079
- Fomenko, V. T. see Kolegava, E. M., 90g:53074
- Gurevich, V. L. Stability of spaces of constant curvature. (Russian) (see 90c:53001)
- Ivanova-Karatopraklieva, I. (with Sabitov, I. Kh.) Second-order infinitesimal bendings of surfaces of revolution with flattening at the pole. 90d:53075
- Kolegava, E. M. (with Fomenko, V. T.) Continuation of infinitesimal bendings of surfaces to analytic bendings under external constraints. 90g:53074
- Labourie, François Existence et compacité d'immersions isométriques elliptiques. [Existence and compactness of elliptic isometric immersions] 90k:53100
- Magomedov, A. A. The existence of generalized solutions of the Dirichlet problem for the Monge-Ampère equation in a class of convex surfaces. (Russian) 90c:53075
- Nikolaev, I. G. Isotropic metric spaces. 90i:53085
- Sabitov, I. Kh. see Ivanova-Karatopraklieva, I., 90d:53075
- Usmanov, Z. D. Infinitesimal bendings of surfaces of positive curvature with a point of flattening. (Russian) 90b:53073

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- Anikonov, Ya. E. (with Stepanov, V. N.) ★ О восстановлении излучающих многообразий. (Russian) [Reconstruction of radiating manifolds] 90c:58179
- Asburbekov, K. D. (with Nasrulaev, F. S.) Application of the structure of plane sections of saddle surfaces of class \mathcal{E}^2 to the solution of a transcendental equation. (Russian) (see 90a:00004)
- Delanoë, Ph. Réalisations globalement régulières de disques strictement convexes dans les espaces d'Euclide et de Minkowski par la méthode de Weingarten. (English summary) [Globally smooth realizations, by the Weingarten method, of strictly convex disks in Euclidean and Minkowski spaces] 90f:53097

- Hasanis, Th. (with Koutroufotis, D.; Pamfilos, P.) Surfaces of E^4 satisfying certain restrictions on their normal bundle. 90i:53006
- Huisken, Gerhard Asymptotic behavior for singularities of the mean curvature flow. 90m:53016
- Koutroufotis, D. see Hasanis, Th.; et al., 90i:53006
- Li, Quan Ying Infinitesimal isometric deformations of surfaces that preserve mean curvature. (Chinese. English summary) 90c:53008
- Nasrulaev, F. S. see Ashurbekov, K. D., (90a:00004)
- Pamfilos, P. see Hasanis, Th.; et al., 90i:53006
- Pogorelov, A. V. Special infinitesimal bendings of conical surfaces. 90c:53010
- Ros, Antonio Compact hypersurfaces with constant higher order mean curvatures. 90c:53160
- Stepanov, V. N. see Anikonov, Ya. E., 90c:58179

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- Lester, J. A. Zeeman's lemma on Robertson-Walker space-times. 90e:83080
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- Sekigawa, K. Almost Hermitian structures on twistor bundles. 90d:53084
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54Axx Generalities

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- Rzeczowski, Tadeusz Strong convergence of selections implied by weak. 90c:28016
- Srivatsa, V. V. see Malra, A.; et al., 90c:28008

- Teodora, Georgeta Continuous selections for multifunctions satisfying the Carathéodory type conditions. The Darboux problem associated to a multivalued equation. 90i:28018
- Continuous selections for multifunctions satisfying the Carathéodory type conditions. The Goursat problem associated to a multivalued equation. 90m:35133
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54C70 Entropy

- Seidler, Gerald T. The topological entropy of homeomorphisms on one-dimensional continua. 90g:54012
- Items with secondary classifications in 54C70
- Block, Louis (with Keesling, James; Li, Shi Hai; Peterson, Kevin) An improved algorithm for computing topological entropy. 90k:58093
- Fathi, Albert Expansiveness, hyperbolicity and Hausdorff dimension. 90m:58159
- Fedorenko, V. V. see Smítal, Ya.; et al., 90m:58141
- Keesling, James see Block, Louis; et al., 90k:58093
- Li, Shi Hai see Block, Louis; et al., 90k:58093
- Newhouse, Sheldon E. Continuity properties of entropy. 90f:58108
- Corrections to: "Continuity properties of entropy" [Ann. of Math. (2) 129 (1989), no. 2, 215–235; MR 90f:58108]. 90m:58117
- Peterson, Kevin see Block, Louis; et al., 90k:58093
- Salama, Ibrahim A. Topological entropy and recurrence of countable chains. 90d:54076
- Corrections to: "Topological entropy and recurrence of countable chains" [Pacific J. Math. 134 (1988), no. 2, 325–341; MR 90d:54076]. 90k:54055
- Sharkovskii, A. N. see Smítal, Ya.; et al., 90m:58141
- Smítal, Ya. (with Fedorenko, V. V.; Sharkovskii, A. N.) Characterization of some classes of mappings of an interval with zero topological entropy. (Russian. English summary) 90m:58141
- Thomas, Romeo F. Topological entropy of fixed-point free flows. 90m:58178
- Xiong, Jin Cheng A note on topological entropy. (Chinese) (Not in MR)
- A simple proof of a theorem of Misiurewicz. (Chinese. English summary) 90j:58121
- Yue, Cheng Bo Dimension formula of invariant measures on hyperbolic sets. 90h:28022
- Zargaryan, A. S. A variational principle for a symbolic Markov chain with a countable number of states. (Russian) (see 90m:00040)

54C99 None of the above, but in this section

- Kulpa, Władysław Factorization theorems for lowering and raising of maps. (see 90g:28001)
- (with Turzański, Marian) Bijections of scattered spaces onto compact Hausdorff. 90i:54038
- (with Turzański, Marian) Bijections onto compact spaces. 90c:54039
- Rassias, George M. New and old results and problems in topology. 90c:54040
- Sher, R. B. On the separation of the plane by the closed one-to-one image of the reals. 90f:54033
- Trnková, Věra Simultaneous representations by metric spaces. (French summary) 90i:54054
- Turina, M. A differential Lipschitzianess test on convex metric spaces. 90c:54041
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- Banerjee, G. K. see Mukherjee, M. N., 90a:54079
- Charalambous, M. G. The factorization theorem for paracompact Σ spaces. 90i:54080
- Chigogidze, A. Ch. n -soft mappings of n -dimensional spaces. 90j:54011
- Jarosz, K. Nonlinear generalizations of the Banach-Stone theorem. 90h:46047
- Karimov, U. Kh. Similarity of spaces in combinatorial topology. (Russian. Tajiki summary) 90i:54061
- Knebusch, Manfred \star Weakly semialgebraic spaces. 90j:14027
- Maheshwari, Shoo Narayan (with Tiwari, R. K.) Inter-relations among some new mappings. 90d:54063
- Michel, A. N. see Oppenheimer, Edward P., 90g:65067
- Mukherjee, M. N. (with Banerjee, G. K.) Pairwise T_1 -continuous function and pairwise T_1 -separation axioms in bitopological spaces. 90a:54079
- Oppenheimer, Edward P. (with Michel, A. N.) Application of interval analysis techniques to linear systems. I. Fundamental results. 90g:65067
- Tiwari, R. K. see Maheshwari, Shoo Narayan, 90d:54063
- Vasil'ev, V. A. Topology of spaces of functions without complex singularities. 90k:58027
- Xin, Yu Mei Contiguous spaces and their properties. (Chinese. English summary) (Not in MR)

54Dxx Fairly general properties

54D05 Connected and locally connected spaces (general aspects)

- Clark, Bradd Evans (with Schneider, Victor P.) A characterization of maximal connected spaces and maximal arcwise connected spaces. 90a:54055
- Dimitrijević, R. (with Kočinac, Ljubika) Some classes of connected neighbourhood spaces. (Serbo-Croatian summary) 90c:54042
- Katsura, Hidefumi Concerning generalized connectedness in Kleene of a hyperspace. 90a:54056
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- Kříž, I. (with Pultr, A.) Peculiar behavior of connected locales. (French summary) 90c:54043
- Mayer, J. C. (with Oversteegen, Lex G.) A topological characterization of \mathbb{R} -trees. 90k:54031
- Oversteegen, Lex G. see Mayer, J. C., 90k:54031
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- Tong, Jing Cheng D -sets and strong connectedness. 90m:54028

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- Baboolal, D. On uniform connectedness. 90i:54070
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 Chimura, Hidehiko (with Nagata, Jun-iti) On extension of open collections. 90e:54044
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- Averna, Diego Separation properties in X and 2^X . Upper semicontinuous and measurable multifunctions. 90i:54016
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- Mršević, M. see Aarts, J. M., 90m:54029
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- Acharya, K. (with Singh, Surendra Prasad) On weak separation axiom in a topological space. (Not in MR)
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 Bregman, Yuri H. Correction to the paper: "Some factorization theorems for paracompact σ -spaces" [Comment. Math. Univ. Carolin. 28 (1987), no. 2, 211–216; MR 88j:54050]. 90a:54052
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 Lawrence, L. Brian Using filters over the index set to define and decompose product spaces. 90m:54013
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54D20 Covering properties: Lindelöf, (m, n) -compact, etc.

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- Al-Ani, A. T. Relations among some multifunctions and spaces. (Arabic summary) 90a:54051
- Allam, A. A. (with Fath Alla, M. A.; Abd El-Hakeim, K. M.) A note on semi compact spaces. 90a:54058
- Arkhangelskii, A. V. Some problems and lines of investigation in general topology. 90d:54050
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- Chae, Gyu-Ihn (with Lee, Do Won) F -closed spaces. 90i:54059
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- Ganster, M. (with Janković, Dragan) On spaces whose Lindelöf subsets are closed. 90i:54060
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- Janković, Dragan see Ganster, M., 90i:54060
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- Kemoto, Nobuyuki A note on rim-Lindelöf locally connected normal Moore spaces. 90i:54051
- A note on connected submeta-Lindelöf spaces. 90j:54024
- Kombarov, A. P. Functionally open and rectangular coverings of $X^2 \setminus \Delta$ and some topological characteristics of Corson and Eberlein compact spaces. 90a:54060
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- Yun, Zi Qia On point-countable closed k -network. 90m:54032
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- Alas, O. T. Some results on pseudocompact topological groups. (Serbo-Croatian summary) 90c:54001
- Alster, K. The product of a Lindelöf space with the space of irrationals under Martin's axiom. 90m:54012
- Balasubramanian, G. On a generalization of paracompact spaces. 90i:54057
- Baloglou, George (with Comfort, W. W.) Compact-covering numbers. 90a:54070
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- Kemoto, Nobuyuki Weak (ω_1, ω) -refinability in ordered spaces. 90m:54040
- Kvanchilashvili, M. T. Čech homology groups and normality in the light of discreteness in the sense of P. S. Aleksandrov. (Russian. English summary) 90j:55008
- Lawrence, L. Brian The influence of a small cardinal on the product of a Lindelöf space and the irrationals. 90m:54014
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- Chae, Gyu-Ihn (with Lee, Do Won) F -closed spaces. 90i:54059
- Fedeli, Alessandro A -compact spaces. 90i:54004
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- Al-Rashed, Abdallah M. Compactness and favorable sets. 90j:54026
- Arkhangelskii, A. V. Compactness. (Russian) 90g:54017
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- Bell, Murray G. G_δ subspaces of hyadic spaces. 90a:54062
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- Gao, Zhi Min On Jankovic, Reilly and Vamanamurthy's question. 90m:54034
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- Roy, Aloke Kumar Semi-para-compact space and its properties. (Not in MR)
- Sarvesha, A. G. Compact spaces of the form $F(X)$ that are continuous images of I^n and D^n . 90a:54065
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- Allam, A. A. (with Abd El-Hakeim, K. M.) On β -compact spaces. 90f:54005
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- Brochet, J.-M. (with Pouzet, Maurice) Maximal chains and cutsets of an ordered set: a Menger type approach. 90c:06003a
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- Chae, Gyu-Ihn (with Lee, Do Won) F -closed spaces. 90i:54059
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- Dong, Xiao Yong (with Wang, Shi Kun) The equivalence of initial m -compactness and local initial m -compactness in hyperspaces of regular spaces. (Chinese) 90i:54023
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- Lee, Do Won see Chae, Gyu-Ihn, 90i:54059
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- Chigogidze, A. Ch. n -soft mappings of n -dimensional spaces. 90j:54011
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- Kary-Niyazov, Sh. Sh. Exponents of products of metric spaces. 90a:54016
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- Kato, Hisao The nonexistence of expansive homeomorphisms of 1-dimensional compact ANRs. 90e:54067

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- Singh, Malham Ranjiti (with Chatterjee, Arun Kumar) Fixed point theorems in 2-metric spaces. (Not in MR)
 — Results on continuous mappings and fixed points in a 2-metric space using two metrics. 90c:54101
- Singh, Ram Kishore see Singh, Uday Narayan, 90b:54061
- Singh, S. B. see Singh, Uday Narayan, (Not in MR)
- Singh, S. L. (with Pant, B. D.) Fixed points of non-self-mappings in probabilistic spaces. 90b:54058
 — (with Pant, B. D.) Coincidence and fixed point theorems for a family of mappings of Menger spaces and extension to uniform spaces. 90d:54095
 — (with Pant, B. D.) Common fixed points of a family of mappings in Menger and uniform spaces. 90b:54059
 — (with Virendra) Relative asymptotic regularity and fixed points. 90b:54060
 — (with Ha, Ki Sik; Cho, Yeol Je) Coincidence and fixed points of nonlinear hybrid contractions. 90g:54042
 — (with Kumar, V.; Ganguly, A.) Coincidence and fixed-points of family of mappings on 2-metric spaces and application. (Hindi. English summary) 90k:54060
 — see also Cho, Yeol Je; et al., (Not in MR)
- Singh, Sankatha Prasad see Carbone, Antonio; et al., 90f:54065
- Singh, Th. Manihar A note on fixed point theorem. (Not in MR)
- Singh, Uday Narayan (with Singh, Ram Kishore) Generalized fixed point theorems in metric space. 90b:54061
 — (with Singh, S. B.) Some generalized theorems on fixed point. (Not in MR)
- Som, Tanmoy Nonlinear mappings in metric and Hausdorff spaces and their common fixed point. 90d:54096
 — (with Mukherjee, Rathindra Nath¹) Some results on generalized contractive moduli of a pair of operators. (Not in MR)
 — see also Mukherjee, Rathindra Nath¹; et al., 90j:54048
- Stojaković, Milla A common fixed point theorems in probabilistic metric spaces and its applications. (Serbo-Croatian summary) 90d:54097
- Taniguchi, Takeshi Common fixed point theorems on expansion type mappings on complete metric spaces. 90i:54104
- Tardiff, R. M. see Schweizer, B.; et al., 90i:54103
- Thapliyal, P. S. see Narayan, K. A.; et al., 90d:54086
- Torgashova, N. E. Modification of Kakutani's theorem and its application. 90k:54061
- Verma, Vandana see Mukherjee, Rathindra Nath¹; et al., 90j:54048
- Vidali, Theodor Sequences of mappings converging to a contraction mapping. 90i:54105
- Virendra see Narayan, K. A.; et al., 90d:54086 and Singh, S. L., 90b:54060
- Vrahatis, Michael N. A short proof and a generalization of Miranda's existence theorem. 90c:54182
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- Winkelkemper, H. E. Fixed points with rotation as obstructions to topological transitivity. I. 90f:54070
- Wu, Bin (with Guo, Wei Ping) A common fixed point theorem for commuting mappings. (Chinese) 90k:54062
- Xiong, Tian Xiang see Kang, Shi Kun, 90b:54058 and (Not in MR)
- Yonezawa, Yasushi (with Kinoshita, Shin'ichi) A property of essential components of the fixed point set. 90b:54062

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- Zhang, Chun Yi The generalized set-valued contraction and completeness of the metric space. 90m:54058
- Zhang, Jun Li (with Ren, Zhi Ping²) Applications of fixed point theorems for abstract G -distance spaces to probabilistic metric spaces. (Chinese. English summary) 90j:54049
- Zhang, Shi Sheng (with Kang, Shi Kun) Fixed point theorems for expansive mappings in 2-metric spaces. (Chinese. English summary) (Not in MR)
- (with Kang, Shi Kun) Fixed point theorems for contractive mappings on probabilistic metric spaces. (Chinese. English summary) (Not in MR)
- (with Che, Su Bing) The metrization of probabilistic metric spaces and fixed points. (Chinese. English summary) 90i:54106
- (with Luo, Qun) Set-valued Caristi's fixed point theorem and Ekeland's variational principle. 90d:54098
- (with Chen, Yu Qing) Topological degree theory and fixed point theorems in probabilistic metric spaces. (Not in MR)
- (with Huang, Nan Jing) Fixed point theorems for set-valued mappings in 2-metric spaces. 90i:54107
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- (with Zhong, Qi Chun) On Rhoades' open questions. 90i:54108
- see also Kang, Shi Kun; et al., 90c:54096
- Zhang, Xian Common fixed point theorems for pairs of mappings. (Chinese. English summary) 90i:54109
- Zhong, Qi Chun see Zhang, Shi Sheng, 90i:54108
- Zitarosa, A. see Messano, B., 90g:54038
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- Angew, Vanil G. A surjectivity result for nonlinear mappings on uniform spaces and applications. 90m:47075
- Ballou, J.-B. (with Rallis, N. E.) Not too many fixed points. 90d:47058
- Bandyopadhyay, Tapasundar (with Samanta, S. K.; Das, Phullendu) Fuzzy metric spaces redefined and a fixed point theorem. 90j:54004
- Bardaro, C. (with Ceppitelli, Rita) Applications of the generalized Knaster-Kuratowski-Mazurkiewicz theorem to variational inequalities. 90c:49005
- Ben-El-Mechaieck, H. A remark concerning a matching theorem of Ky Fan. 90m:47071
- Ceppitelli, Rita see Bardaro, C., 90c:49005
- Chatterjee, Arun Kumar see Singh, Maham Ranjit, 90d:47063
- Chen, Zhi Qiang A fixed-point theorem for set-valued mappings. (Chinese. English summary) 90i:47059
- Chun, Dae Shik (with Yang, Ki Yeol; Kim, Jong-Gyoon) On the subgroups of fundamental group in the fixed point theory. 90j:55001
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- Dhage, B. C. On approximating common fixed points of some mappings. 90a:47141
- Ding, Xie Ping Some coincidence theorems of set-valued mappings. 90i:47062
- Erné, Marcel \mathcal{F} -completeness and fixpoint properties. 90c:06004
- Fadell, E. Two vignettes in fixed point theory. 90j:55002
- Fan, Xian Ling A topological degree for multivalued generalized admissible mappings. (Chinese. English summary) 90j:55003
- Frum-Ketkar, R. L. Perfect mappings of noncompact spaces. 90m:54023
- Ghosh, M. K. see Maiti, Mrityunjoy, 90j:47076
- Girle, Jack The Lefschetz-Hopf theorem for Q -simplicial maps. 90d:55001
- Gólet, I. A common fixed point theorem in probabilistic metric space and its applications. (Romanian summary) 90c:00062
- On some common fixed point theorems for a pair of mappings on probabilistic metric spaces. (Romanian summary) (see 90d:00043)
- Górniewicz, Lech (with Granas, A.; Kryszewski, W.) Sur la méthode de l'homotopie dans la théorie des points fixes pour les applications multivoques. I. Transversalité topologique. (English summary) [On the homotopy method in fixed-point theory for set-valued maps. I. Topological transversality] 90j:55002
- (with Granas, A.; Kryszewski, W.) Sur la méthode de l'homotopie dans la théorie des points fixes pour les applications multivoques. II. L'indice dans les ANR- s compacts. (English summary) [On the homotopy method in the fixed-point theory for set-valued maps. II. The index in compact ANRs] 90j:55004
- Granas, A. see Górniewicz, Lech; et al., 90g:55002 and 90j:55004
- Hadžić, Olga Fixed point theorems for multivalued mappings in probabilistic metric spaces with a convex structure. (Serbo-Croatian summary) 90a:47143
- Hagopian, Charles L. Fixed points of tree-like continua. 90c:54078
- Huang, Zheng Ming A necessary and sufficient condition for the existence of a solution to an operator equation. 90c:47059
- Ishihara, Hajime Fixed point theorems for Lipschitzian semigroups. 90d:47084
- Jasen, Julian A remark on Carathéodory type selections. 90d:28013
- Jech, Thomas A remark on a principle of Brézis and Browder. (Not in MR)
- Kang, Shi Kun see Xiong, Tian Xiang, 90k:54042 and Zhang, Shi Sheng, 90k:54043
- Khan, Liaqat Ali Fixed points by Ishikawa iterates in metric linear spaces. 90j:47075
- Khan, Mohd. Saeed see Khan, Mumtaz Ahmad; et al., 90c:47085
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- Kok, Joost N. (with Rutten, J. J. M. M.) Contractions in comparing concurrency semantics. (see 90i:68004)
- Kryszewski, W. see Górniewicz, Lech; et al., 90g:55002 and 90j:55004
- López-Gómez, J. A fixed point theorem for discontinuous operators. (Serbo-Croatian summary) 90i:47107
- Maiti, Mrityunjoy (with Ghosh, M. K.) Approximating fixed points by Ishikawa iterates. 90j:47076
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- Mañka, R. Some forms of the axiom of choice. (German summary) 90j:03091

- Turinici's fixed point theorem and the axiom of choice. 90i:04002
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- Minc, Piotr A fixed point theorem for weakly chainable plane continua. 90d:54067
- Mizoguchi, Noriko (with Takahashi, Wataru) Fixed point theorems for multivalued mappings on complete metric spaces. 90c:47086
- A generalization of Brøndsted's results and its applications. 90c:47068
- Moloney, J. J. Some fixed point theorems. (Serbo-Croatian summary) 90i:47116
- Mukherjee, Rathindra Nath¹ Some fixed point theorems for p -contractions and related results. 90a:47148
- see also Som, Tammy, 90j:54006
- Okhezin, V. P. On the homotopy invariance of the fixed-point property in the class of compact polyhedra. (Russian) 90j:55006
- Olędzki, Juliusz On symmetric products. 90a:54023
- Omari, P. (with Villari, Gabriele; Zanolin, Fabio) A survey of recent applications of fixed point theory to periodic solutions of the Liénard equation. 90b:34062
- Petrusel, Adrian Starshaped and fixed points. 90c:47063
- Rallis, N. E. see Ballou, J.-B., 90d:47058
- Rus, Ioan A. Picard mappings. I. (Romanian summary) 90i:34019
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- Singh, Maham Ranjit (with Chatterjee, Arun Kumar) Fixed point theorems in Banach spaces. 90d:47063
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- Som, Tammy (with Mukherjee, Rathindra Nath¹) Some fixed point theorems for fuzzy mappings. 90j:54006
- Sun, Xiao Ming Graphs and continuity of multifunctions. (Chinese. English summary) 90i:54030
- Takahashi, Wataru see Mizoguchi, Noriko, 90c:47086
- Turinici, M. A differential Lipschitzianess test on convex metric spaces. 90c:54041
- Ulrich, Hanno ★ Fixed point theory of parametrized equivariant maps. 90b:57045
- Villari, Gabriele see Omari, P.; et al., 90b:34062
- Xiong, Tian Xiang (with Kang, Shi Kun) Convergence rate estimation of Picard iteration sequences for a class of contraction mappings in probabilistic metric spaces. (Chinese. English summary) 90k:54042
- Yang, Ki Yeol see Chun, Dae Shik; et al., 90j:55001
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- Zhang, Shi Sheng (with Kang, Shi Kun) Metrization problems for probabilistic metric spaces and their applications. (Chinese. English summary) 90k:54043
- The coincidence degree and coincidence theorem for fuzzy mappings. (Chinese) 90c:47107
- Zhao, Xue Zhi A relative Nielsen number for the complement. 90k:55007

54H99 None of the above, but in this section

- Bogaty, S. A. Iteration indices of a multivalued mapping. (Russian) 90c:54104
- Frič, Roman Cauchy sequences in \mathcal{S} -groups. 90k:54063
- Kelley, J. L. (with Srinivasan, T. P.) A proof of the Borel isomorphism of uncountable Polish spaces. 90g:54043
- Rabin, Matatya On the reconstruction of topological spaces from their groups of homeomorphisms. 90g:54044
- Srinivasan, T. P. see Kelley, J. L., 90g:54043
- Items with secondary classifications in 54H99
- Aharoni, Ron The topological dimension of the spectrum of a commutative ring. 90b:13004
- Arlinghaus, Sandra Lach ★ Essays on mathematical geography. II. 90i:92003
- Banaschewski, B. Compact regular frames and the Sikorski theorem. 90c:04004
- Droste, Manfred The existence of rigid measurable spaces. 90b:28001
- Filipczak, M. (with Filipczak, Tomasz) On some topology related to metric density. (Serbo-Croatian summary) 90d:26010
- Filipczak, Tomasz see Filipczak, M., 90d:26010
- Gähler, Werner Monads and convergence. 90b:18007
- García, Domingo A note on angelic spaces. (Spanish. English summary) 90b:46009
- Johnstone, Peter T. A constructive "closed subgroup theorem" for localic groups and groupoids. (French summary) 90c:22006
- Mader, A. (with Vinsonhaler, C.) Minimal Hausdorff topologies on abelian groups. 90b:20085
- Martínez, Juan Carlos On a class of topological spaces with a Scott sentence. 90b:03050
- Mayer, J. C. (with Oversteegen, Lex G.) A topological characterization of R -trees. 90k:54031
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- Ribarska, N. K. A Radon-Nikodym compact which is not a Gruenhage space. 90c:54073
- Shorrt, Rae Michael Measurable spaces with c.c.c. 90a:28005
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54J05 Nonstandard topology [see also 03Hxx]

- Molchanov, V. A. Regular convergence spaces. (Russian) 90i:54110
- Application of repeated nonstandard extensions in topology. 90f:54071

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- Bandlow, Ingo A note on applications of the Löwenheim-Skolem theorem in general topology. 90f:54008
- Bennigshofen, B. see Stroyan, K. D.; et al., 90b:03097
- Čuda, Karel A contribution to topology in AST: almost indiscernibilities. 90c:03065
- (with Vojtášková, Blanka) Monads of indiscernibles. 90b:03076

- Kubitzek, Zbyněk Elementary nonstandard approach to topological spaces. (Russian and Slovak summaries) 90c:03066
- Leth, Steven C. Sequences in countable nonstandard models of the natural numbers. 90h:03054
- Peraire, Yves La relation de proximité infinitésimale dans les espaces topologiques. [The infinitesimal proximity relation in topological spaces] 90j:03115
- Pultr, A. Diameters in locales: how bad they can be. 90b:18005
- (with Ulehla, Josef) Notes on characterization of paracompact frames. 90k:54035
- Richter, M. M. see Stroyan, K. D.; et al., 90b:03097
- Stroyan, K. D. (with Benninghofen, B.; Richter, M. M.) Superinfinitesimals in topology and functional analysis. 90b:03097
- Tsouvaras, A. Simple motions. 90b:03078
- Ulehla, Josef see Pultr, A., 90k:54035
- Vojtáková, Blanka see Čada, Karel, 90b:03076

55-XX Algebraic topology

55-01 Elementary exposition; textbooks

- Mayer, Karl Heinz ★ Algebraische Topologie. (German) [Algebraic topology] 90a:55001
- Rotman, Joseph J. ★ An introduction to algebraic topology. 90a:55001

Items with secondary classifications in 55-01

- Hocking, John G. (with Young, Gail S.) ★ Topology. 90b:54001
- Jänich, Klaus ★ Topologie. (German) [Topology] 90m:54002
- Postnikov, M. M. ★ Дифференциальная геометрия. (Russian) [Differential geometry] 90h:53002
- Young, Gail S. see Hocking, John G., 90b:54001

55-02 Advanced exposition (research surveys, monographs, etc.)

- Adams, J. F. Problem session for homotopy theory. 90f:55001
- Fuks, D. B. see Viro, O. Ya., (90g:55001) and (90g:55001)
- (Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 90g:55001
- Viro, O. Ya. (with Fuks, D. B.) Introduction to homotopy theory. (Russian) (see 90g:55001)
- (with Fuks, D. B.) Homology and cohomology. (Russian) (see 90g:55001)

Items listed otherwise than by author

- Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 24. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 24] 90g:55001
- Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 24. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 24] 90g:55001

Items with secondary classifications in 55-02

- (Anosov, D. V.) see Pontryagin, L. S., 90c:01140
- Banes, Hans Joachim ★ Algebraic homotopy. 90f:55016
- Brown, Ronald ★ Topology. 90k:54001
- Dieudonné, Jean ★ A history of algebraic and differential topology. 1900-1960. 90g:01029
- (Gamkrelidze, R. V.) see Pontryagin, L. S., 90c:01140
- Jiang, Ze Han ★ The theory of fixed point classes. 90h:55002
- Kirwan, Frances ★ An introduction to intersection homology theory. 90e:55013
- (Mishchenko, E. F.) see Pontryagin, L. S., 90c:01140
- Pontryagin, L. S. ★ Избранные научные труды. Том I. (Russian) [Selected scientific works. Vol. I] 90c:01140
- (Postnikov, M. M.) see Pontryagin, L. S., 90c:01140

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- Bibliography:
Pontryagin, L. S. see Pontryagin, L. S., 90c:01140
- Biography:
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55-03 Historical (must also be assigned at least one classification number from Section 01)

- James, I. M. Topology: past, present and future. 90f:55002

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- Browder, William Commentary on topology. 90m:01031
- Dieudonné, Jean ★ A history of algebraic and differential topology. 1900-1960. 90g:01029
- Dror Farjoun, Emmanuel (with Farkas, Hershel; Harper, John R.; Miller, Haynes) Alexander Zabrodsky 1936-1986. 90b:01037
- Farkas, Hershel see Dror Farjoun, Emmanuel; et al., 90b:01037
- Harper, John R. see Dror Farjoun, Emmanuel; et al., 90b:01037
- Hilton, Peter John A brief, subjective history of homology and homotopy theory in this century. 90b:01011
- (Liao, Shan Tao) see Wu, Zhen De, 90c:01113
- Mac Lane, Saunders Concepts and categories in perspective. 90k:01019a
- Addendum: "Concepts and categories in perspective". 90k:01019b
- Miller, Haynes see Dror Farjoun, Emmanuel; et al., 90b:01037
- Whitehead, George W. The work of Edgar H. Brown, Jr. in topology. 90c:01112

- Whitney, Hassler Moscow 1935: topology moving toward America. 90g:01043
- Wu, Zhen De The research works of Professor Shan Tao Liao in algebraic topology. (Chinese. English summary) 90c:01113
- (Zabrodsky, Alexander) see Dror Farjoun, Emmanuel; et al., 90b:01037

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- Obituary:
Zabrodsky, Alexander see Dror Farjoun, Emmanuel; et al., 90b:01037

55-04 Explicit machine computation and programs (not the theory of computation or programming)

- Davis, Donald M. Use of a computer to suggest key steps in the proof of a theorem in topology. 90h:55001
- Rector, David L. A computer language for topologists. 90a:55002

Items with secondary classifications in 55-04

- Curtis, Edward (with Mahowald, Mark) EHP computations of $E_2(S^n)$. 90a:55034
- Dobkin, David P. see Yao, F. Frances; et al., 90e:68098
- Edelsbrunner, Herbert see Yao, F. Frances; et al., 90e:68098
- Mahowald, Mark see Curtis, Edward, 90a:55034
- Paterson, Michael S. see Yao, F. Frances; et al., 90e:68098
- Ravenel, Douglas C. Homotopy groups of spheres on a small computer. 90e:55028
- Yao, F. Frances (with Dobkin, David P.; Edelsbrunner, Herbert; Paterson, Michael S.) Partitioning space for range queries. 90e:68098

55-06 Proceedings, conferences, etc.

- (Carlsson, G.) see Algebraic topology, 90a:55003
- (Cohen, Ralph L.) see Algebraic topology, 90a:55003
- (James, I. M.) see Advances in homotopy theory, 90m:55001
- (Jiang, Bo Ju) see Topological fixed point theory and applications, 90i:55001
- (Mahowald, Mark) see Algebraic topology, 90h:55001
- (Miller, Haynes) see Algebraic topology, 90a:55003
- (Mimura, Mamoru) see Homotopy theory and related topics, 90m:55002
- (Priddy, Stewart) see Algebraic topology, 90h:55001
- (Ravenel, Douglas C.) see Algebraic topology, 90a:55003
- (Salamon, Simon) see Advances in homotopy theory, 90m:55001
- (Steer, B.) see Advances in homotopy theory, 90m:55001
- (Sutherland, W. A.) see Advances in homotopy theory, 90m:55001

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- Advances in homotopy theory ★ Advances in homotopy theory. 90m:55001
- Algebraic topology ★ Algebraic topology. 90a:55003
- ★ Algebraic topology. 90h:55001
- Arcata, CA ★ Algebraic topology. 90a:55003
- Birthday:
James, I. M. ★ Advances in homotopy theory. 90m:55001
- Conference:
Algebraic Topology ★ Algebraic topology. 90a:55003
- ★ Algebraic topology. 90h:55001
- Homotopy Theory ★ Advances in homotopy theory. 90m:55001
- Homotopy Theory and Related Topics ★ Homotopy theory and related topics. 90m:55002
- Topological Fixed Point Theory and Applications ★ Topological fixed point theory and applications. 90i:55001
- Contemporary Mathematics ★ Algebraic topology. 90h:55001
- Cortona ★ Advances in homotopy theory. 90a:55001
- Evanston, IL ★ Algebraic topology. 90h:55001
- Homotopy theory and related topics ★ Homotopy theory and related topics. 90m:55002
- Kinosaki ★ Homotopy theory and related topics. 90m:55002
- Lecture Notes in Mathematics ★ Algebraic topology. 90a:55003
- ★ Topological fixed point theory and applications. 90i:55001
- ★ Homotopy theory and related topics. 90m:55002
- Symposium:
Topology ★ Advances in homotopy theory. 90m:55001
- Tianjin ★ Topological fixed point theory and applications. 90i:55001
- Topological fixed point theory and applications ★ Topological fixed point theory and applications. 90i:55001

Items with secondary classifications in 55-06

- (Boyd, J. R.) see Proceedings: Guilford College Sesquicentennial Topology Conference, 1988, 90a:54003
- (Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 90g:55002
- (Gordh, G. R., Jr.) see Proceedings: Guilford College Sesquicentennial Topology Conference, 1988, 90a:54003

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- Conference:
Topology ★ Proceedings of the Guilford College Sesquicentennial Topology Conference, 1988. 90a:54003
- Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 50. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 50] 90a:54002
- Greensboro, NC ★ Proceedings of the Guilford College Sesquicentennial Topology Conference, 1988. 90a:54003
- Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 50. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 50] 90a:54002

Khabarovsk ★ Proceedings of the Second Soviet-Japan Joint Symposium of Topology.

90m:54005

Proceedings:

Symposium of Topology ★ Proceedings of the Second Soviet-Japan Joint Symposium of Topology. 90m:54005

Topology Conference ★ Proceedings of the Guilford College Sesquicentennial Topology Conference, 1988. 90a:54003

Symposium:

Topology ★ Proceedings of the Second Soviet-Japan Joint Symposium of Topology.

90m:54005

55Mxx Classical topics (For the topology of Euclidean spaces and manifolds, see 57N05, 57N10, 57N15.)

55M10 Dimension theory [see also 54F45]

Dranshnikov, A. N. The cohomological dimension is not preserved under the Stone-Čech compactification. (Russian) 90a:55002

— Homological dimension theory. 90a:55003

— On a problem of P. S. Aleksandrov. 90a:55004

Mardelid, Sibe Factorization theorems for cohomological dimension. 90a:55004

Items with secondary classifications in 55M10

Dranshnikov, A. N. Cohomology manifolds over finite groups. 90a:57025

Mardelid, Sibe (with Rubin, Leonard R.) Cell-like mappings and nonmetrizable compacta of finite cohomological dimension. 90a:54095

Rubin, Leonard R. see Mardelid, Sibe, 90a:54095

55M15 Absolute neighborhood retracts [see also 54C55, 54F40]

Items with secondary classifications in 55M15

Choi, Jung-In K. (with Woo, Moo Ha) UV^m -maps that are fine homotopy equivalences. 90i:55015

Girolo, Jack The Lefschetz-Hopf theorem for Q -simplicial maps. 90d:55001

Ulrich, Hanno ★ Fixed point theory of parametrized equivariant maps. 90h:57045

Woo, Moo Ha see Choi, Jung-In K., 90i:55015

55M20 Fixed points and coincidences [see also 54H25]

Babenko, I. K. (with Bogaty, S. A.) On the mapping of a sphere into a Euclidean space. 90m:55003

Bogaty, S. A. see Babenko, I. K., 90m:55003

Chun, Dae Shik (with Lee, Hee Jin; Yang, Ki Yeol) A subgroup $P(X, f, x_0)$ of fundamental group in the fixed point theory. 90a:55005

— (with Yang, Ki Yeol; Kim, Jong-Gyoon) On the subgroups of fundamental group in the fixed point theory. 90j:55001

Fadell, E. Two vignettes in fixed point theory. 90j:55002

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Girolo, Jack The Lefschetz-Hopf theorem for Q -simplicial maps. 90d:55001

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55M35 Finite groups of transformations (including Smith theory) [see also 57S17]

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- Ahn, Seung Ho see Lee, Ke An; et al., 90a:55013
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- Ayala, R. (with Domínguez Murillo, Eladio; Quintero, A.) Approximation axiomatique à la théorie du bordisme. (English summary) [An axiomatic approach to bordism theory] 90j:55010
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55N25 Homology with local coefficients, equivariant cohomology

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- homotopy fixed points and the transfer. 90k:55012
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55N30 Sheaf cohomology [see also 18F20, 32C35, 32L10]

- Andrzejczak, Grzegorz On some sheaf cohomology of semi-simplicial manifolds and their realizations. 90k:55013
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55N45 Products and intersections

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55N91 Equivariant homology and cohomology

- Burghel, Dan A localization theorem for functional S^1 -spaces. 90d:55010
 Caruso, J. (with May, J. P.; Priddy, Stewart) The Segal conjecture for elementary abelian p -groups. II. p -adic completion in equivariant cohomology. 90c:55005
 Fadell, E. (with Husseini, S. Y.) Index theory for noncompact group actions with applications to Borsuk-Ulam theorems. 90m:55009
 Husseini, S. Y. see Fadell, E., 90m:55009
 Joshua, Ray Equivariant intersection cohomology—a survey. 90f:55012
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Items with secondary classifications in 55N91

- Arabla, Alberto Cohomologie T -équivariante de la variété de drapeaux d'un groupe de Kac-Moody. (English summary) [T-equivariant cohomology of the flag manifold of a Kac-Moody group] 90i:32042
 Baum, Paul (with Connes, Alain) Chern character for discrete groups. 90e:58149
 Connes, Alain see Baum, Paul, 90e:58149

- Dumas, Ryszard On injective rational coefficient systems. 90c:55024
 Greenlees, J. P. C. Topological methods in equivariant cohomology. 90c:20064
 Honkasalo, Hannu Equivariant Alexander-Spanier cohomology. 90i:55013
 Iwase, Norio A continuous localization and completion. 90k:55015
 Jackowski, S. (with McClure, James E.) Homotopy approximations for classifying spaces of compact Lie groups. 90m:55012
 Kamran, Alex On equivariant sheaf cohomology and elementary C^* -bundles. 90h:46102
 McClure, James E. see Jackowski, S., 90m:55012
 Prieto, Carlos The K -theory of diagrams. (Spanish) 90d:55007

55N99 None of the above, but in this section

- Extremiana Aldana, José Ignacio (with Hernández, L. J.; Rivas, M. T.) An isomorphism theorem of Hurewicz type in the proper homotopy category. 90k:55014
 Hernández, L. J. see Extremiana Aldana, José Ignacio; et al., 90k:55014
 Kirwan, Frances An introduction to intersection homology theory. 90c:55013
 Rivas, M. T. see Extremiana Aldana, José Ignacio; et al., 90k:55014
 Zhou, Yan Two complete sets of invariants of a class of (μ, Δ, γ) -systems. (Chinese) 90c:55013

Items with secondary classifications in 55N99

- Balanov, Z. Fundamental domains and some problems of equivariant topology. (Russian. English summary) 90k:54053
 Björner, Anders (with Kalai, Gil) On f -vectors and homology. 90i:52008
 Dwyer, W. G. (with Kan, D. M.) Homology with simplicial coefficients. 90d:55034
 Gravesen, Jens On the topology of spaces of holomorphic maps. 90g:32023
 Kalai, Gil see Björner, Anders, 90i:52008
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 Landweber, Peter S. (with Stong, Robert E.) Circle actions on Spin manifolds and characteristic numbers. 90a:57040
 Stong, Robert E. see Landweber, Peter S., 90a:57040

55Pxx Homotopy theory {For simple homotopy type, see 57Q10.}

55P05 Homotopy extension properties, cofibrations

- Alonso, Juan M. Fibrations that are cofibrations. II. 90c:55014
 Prieto, Carlos Fluidification of quivers and the Tietze extension theorem for diagrams of topological spaces. 90c:55015

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- Miya, Takao Linear topological spaces and simplicial complexes with the locally convex topology. 90c:46003
 Ulrich, Hanno Fixed point theory of parametrized equivariant maps. 90h:57045

55P10 Homotopy equivalences

- Adams, J. F. (with Kuhn, Nicholas J.) Atomic spaces and spectra. 90m:55010
 Choi, Jung-In K. (with Woo, Moo Ha) UV^∞ -maps that are fine homotopy equivalences. 90i:55015
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 Uno, Hans Michael A_2^* -polyhedra with free homology. 90k:55010
 Woo, Moo Ha see Choi, Jung-In K., 90i:55015

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- Dwyer, W. G. R -nilpotency in homotopy equivalences. 90h:55032
 Extremiana Aldana, José Ignacio (with Hernández, L. J.; Rivas, M. T.) Proper CW-complexes: a category for the study of proper homotopy. 90m:57016
 Hardie, K. A. (with Kamps, K. H.) Track homotopy over a fixed space. (Serbo-Croatian summary) 90k:55020
 Hernández, L. J. see Extremiana Aldana, José Ignacio; et al., 90m:57016
 Igusa, Kiyoshi The stability theorem for smooth pseudoisotopies. 90d:57035
 Kamps, K. H. see Hardie, K. A., 90k:55020
 Lawson, H. Blaine, Jr. Algebraic cycles and homotopy theory. 90h:14008
 Maruyama, Ken-ichi Localization of a certain subgroup of self-homotopy equivalences. 90d:55015
 Montejano, L. (with Rushing, T. B.) Approximating homotopy equivalences by disk bundle projections. (Serbo-Croatian summary) 90a:57027
 Rivas, M. T. see Extremiana Aldana, José Ignacio; et al., 90m:57016
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 Smith, Larry Replacing homotopy actions by topological actions. II. 90d:57048

55P15 Classification of homotopy type

- Baues, Hans Joachim Algebraic homotopy. 90i:55016

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- Agudé, J. Constructing modular classifying spaces. 90m:55016
 Anick, David J. Hopf algebras up to homotopy. 90c:16007
 Brown, Ronald (with Gilbert, N. D.) Algebraic models of 3-types and automorphism structures for crossed modules. 90i:18015
 Crabb, M. C. (with Gonçalves, D. L.) On the space of matrices of given rank. 90a:55026
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 Klyppenstein, John The bu cohomology of $BP(n)$. 90g:55004
 Lawson, H. Blaine, Jr. (with Michelsohn, Marie-Louise) Algebraic cycles, Bott periodicity, and the Chern characteristic map. 90d:14010

- Li, Bang He (with Liang, Xiao Ting) Classification of null-homotopic immersions of m -manifolds into $(m+1)$ -manifolds. (Chinese. English summary) 90j:57024
 Liang, Xiao Ting see Li, Bang He, 90j:57024
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 Smirnov, V. A. Functional homology operations and weak homotopy type. 90h:55033
 Uno, Hans Michael A_2^* -polyhedra with free homology. 90k:55010
 Yoon, Yoon Soo On n -cyclic maps. 90j:55027

55P20 Eilenberg-Mac Lane spaces

- Møller, Jesper Michael Self-maps on twisted Eilenberg-Mac Lane spaces. 90a:55017
 Salvetti, Mario Generalized braid groups and self-energy Feynman integrals. 90c:55017
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55P25 Spanier-Whitehead duality

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- Fenn, Roger Fibring the complement of the Fenn-Rolfen link. 90k:57027
 Hillman, J. A. (with Kearton, C.) Stable isometry structures and the factorization of Q -acyclic stable knots. 90h:57026
 Kearton, C. see Hillman, J. A., 90h:57026
 Lomonaco, Luciano A remark on the total squaring operation. (Italian summary) 90c:55019

55P35 Loop spaces

- Félix, Yves (with Thomas, Jean-Claude) Effet d'un attachement cellulaire dans l'homologie de l'espace des lacets. (English summary) [Effect of attaching a cell on the homology of the loop space] 90j:55012
 Kono, Akira (with Ohnita, Akihiro) On H -spaces which are the homotopy fibres of self-maps of spheres. 90m:55011
 — (with Kozima, Kazumoto) The mod 2 homology of the space of loops on the exceptional Lie group. 90h:55011
 Kozima, Kazumoto see Kono, Akira, 90h:55011
 Mahmud, Zafer Unstable atomicity of $\Omega \text{Spin}(r)$. 90h:55012
 Ohnita, Akihiro see Kono, Akira, 90m:55011
 Scheerer, Hans (with Tanré, Daniel) Exploration de l'homotopie modérée de W. G. Dwyer. IV. (English summary) [Exploring W. G. Dwyer's tame homotopy theory. IV] 90c:55018
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- Arlattaz, Dominique On the k -invariants of iterated loop spaces. 90d:55032
 — The first k -invariant of a double loop space is trivial. 90j:55028
 Asada, Akira Remarks on the relations between nonabelian de Rham theories with respect to G and OG . 90i:55014
 Bédigheimer, C.-F. (with Cohen, Frederick R.; Taylor, Laurence R.) On the homology of configuration spaces. 90h:57031
 Cohen, Frederick R. see Bédigheimer, C.-F.; et al., 90h:57031
 Fadell, E. (with Husseini, S. Y.) A note on the category of the free loop space. 90a:55008
 Husseini, S. Y. see Fadell, E., 90a:55008
 Iwase, Norio (with Mimura, Mamoru) Higher homotopy associativity. 90f:55017
 Lawson, H. Blaine, Jr. Algebraic cycles and homotopy theory. 90h:14008
 Mimura, Mamoru see Iwase, Norio, 90f:55017
 Nguyễn Hữu Việt Hùng Classes de Dickson et algèbres de cohomologie des espaces de lacets itérés. (English summary) [Dickson classes and cohomology algebras of iterated loop spaces] 90c:57037
 — see also Nguyen Nam Hai, 90m:55019
 Nguyen Nam Hai (with Nguyễn Hữu Việt Hùng) Steenrod operations on mod 2 homology of the iterated loop space. 90m:55019
 Scheerer, Hans (with Tanré, Daniel) Exploration de l'homotopie modérée de W. G. Dwyer. III. (English summary) [Exploring W. G. Dwyer's tame homotopy theory. III] 90b:55003
 Tanré, Daniel see Scheerer, Hans, 90b:55003
 Taylor, Laurence R. see Bédigheimer, C.-F.; et al., 90h:57031
 Yamaguchi, Atsushi Morava K -theory of double loop spaces of spheres. 90c:55009

55P40 Suspensions

- Berstein, Israel (with Harper, John R.) Cogroups which are not suspensions. 90c:55006
 Gray, Brayton On the double suspension. 90f:55014
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- Liu, Wen Hsiung Projectivity of the Whitehead product in spheres. 90m:55013

55P42 Stable homotopy theory, spectra

- Carlisle, David (with Kuhn, Nicholas J.) Smash products of summands of $B(\mathbb{Z}/p)^n$. 90i:55017
 Elmendorf, A. D. The Grassmannian geometry of spectra. 90c:55007
 Kuhn, Nicholas J. see Carlisle, David, 90i:55017
 Mitchell, Stephen A. (with Priddy, Stewart) A double coset formula for Levi subgroups and splitting BGL_n . 90f:55015
 Ohkawa, Tetsunuke The injective hull of homotopy types with respect to generalized homology functors. 90j:55013
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Rubinson, Alan Composition products in $R\text{Hom}$, and ring spectra of derived endomorphisms. 90i:55018

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- Adams, J. F. (with Kuhn, Nicholas J.) Atomic spaces and spectra. 90m:55010
 Adem, Alejandro (with Cohen, Ralph L.; Dwyer, W. G.) Generalized Tate homology, homotopy fixed points and the transfer. 90k:55012
 Ahn, Seung Ho see Lee, Ke An; et al., 90a:55013
 Baker, Andrew James (with Würgler, Urs) Liftings of formal groups and the Artinian completion of $v_n^{-1}BP$. 90i:55006
 Caruso, J. (with May, J. P.; Priddy, Stewart) The Segal conjecture for elementary abelian p -groups. II. p -adic completion in equivariant cohomology. 90c:55005
 Cohen, Ralph L. see Adem, Alejandro; et al., 90k:55012
 Crabb, M. C. Periodicity in $Z/4$ -equivariant stable homotopy theory. 90j:55018
 Dwyer, W. G. see Adem, Alejandro; et al., 90k:55012
 Evens, Leonard (with Priddy, Stewart) The ring of universally stable elements. 90k:20089
 Hillman, J. A. (with Kearton, C.) Stable isometry structures and the factorization of Q -acyclic stable knots. 90h:57026
 Inoue, Kouichi On a geometric realization of $\mathcal{A}'(2)$. 90a:55029
 Jeon, Won-Keel see Lee, Ke An; et al., 90a:55013
 Kearton, C. see Hillman, J. A., 90h:57026
 Klippenstein, John (with Smith, Victor) A conjecture of Barratt-Jones-Mahowald concerning framed manifolds having Kervaire invariant one. 90c:55011
 — The bu cohomology of $BP(n)$. 90g:55004
 Kuhn, Nicholas J. see Adams, J. F., 90m:55010
 Lee, Ke An (with So, Kwangho; Jeon, Won-Keel; Ahn, Seung Ho) Computations of some $K_P(S^n)$ and $K_P(P_3(R))$. 90a:55013
 Lin, Wen Hsiung Order of the identity map of the Brown-Gitler spectrum. 90d:55022
 Markl, Martin The real K -ring of some CW-complexes of small dimension. 90a:55014
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 Ono, Mutsu Yaman The equivariant Steenrod algebra. 90h:55028
 Pedersen, Erik K. (with Weibel, Charles A.) K -theory homology of spaces. 90m:55007
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 Ribeiro, C. F. M. KO -groups of the Stiefel manifolds $V_{n,k}$ and $V_{n,k}^+$. 90g:55003
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 Salles, A. Applications of the Pontryagin-Thom construction for singular maps. 90i:57019
 Wang, Qi Ming On totally geodesic spheres in Grassmannians and $O(n)$. 90f:53101
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55P45 H -spaces and duals

- Arkowitz, Martin Categories equivalent to the category of rational H -spaces. 90f:55016
 Duman, Ryszard Moore G -spaces which are not co-Hopf G -spaces. 90h:55013
 Hubbuck, J. R. (with Mimura, Mamoru) The number of mod p $A(p)$ -spaces. 90a:55018
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 — Homotopy associativity of sphere extensions. 90h:55014
 — H -spaces with generating subspaces. 90h:55015
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 — (with Williams, Frank) On 14-connected finite H -spaces. 90g:55006
 — (with Williams, Frank) On 6-connected finite H -spaces with two torsion. 90d:55013
 McGibbon, C. A. Higher forms of homotopy commutativity and finite loop spaces. 90f:55019
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 Roos, Jan-Erik Homology of free loop spaces, cyclic homology and nonrational Poincaré-Betti series in commutative algebra. 90f:55020
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Items with secondary classifications in 55P45

- Berstein, Israel (with Harper, John R.) Cogroups which are not suspensions. 90c:55006
 Harper, John R. see Bernstein, Israel, 90c:55006
 Kono, Akira (with Ohsita, Akihiro) On H -spaces which are the homotopy fibres of self-maps of spheres. 90m:55011
 Ohsita, Akihiro see Kono, Akira, 90m:55011
 Papadopoulos, Basil K. The induced H -structure on function spaces. 90j:54017
 Yoon, Yoon Soo On n -cyclic maps. 90j:55027

55P47 Infinite loop spaces

- Hsu, Sang-Eon The functors Γ^* , Γ and infinite loop spaces. 90e:55019
 Kuhn, Nicholas J. Morava K -theories and infinite loop spaces. 90d:55014

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- Campbell, H. E. A. (with Selick, P. S.) On the semi-tensor product of the Dyer-Lashof and Steenrod algebras. 90h:55029
 Selick, P. S. see Campbell, H. E. A., 90h:55029
 Shimakawa, Kazuhisa Infinite loop G -spaces associated to monoidal G -graded categories. 90h:55017

55P50 Category and cocategory, etc.

- Montejano, L. Categorical and contractible covers of polyhedra. 90e:55020

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- Jessup, Barry Rational approximations to L-S category and a conjecture of Ganea. 90e:55023

55P55 Shape theory [see also 54C56, 54F43, 55Q07]

- Dow, Alan (with Simon, Petr; Vaughan, J. E.) Strong homology and the proper forcing axiom. 90a:55019
 Ivánik, I. (with Uglešić, N.) Weak fibrant compacta. (Serbo-Croatian summary) 90j:55014
 Matsumoto, Takao Equivariant CW complexes and shape theory. 90g:55007
 Mrozik, Peter Continua that are shape-equivalent but not UV^1 -equivalent. 90c:55008
 Sanjurjo, José M. R. A noncontinuous description of the shape category of compacta. 90j:55015
 Simon, Petr see Dow, Alan; et al., 90a:55019
 Thiemann, Hanns The relation between homotopy limits and Bauer's shape singular complex. (French summary) 90h:55016
 Uglešić, N. see Ivánik, I., 90j:55014
 Vaughan, J. E. see Dow, Alan; et al., 90a:55019
- Items with secondary classifications in 55P55
- Brechner, B. L. (with Mayer, J. C.; Tymchatyn, E. D.) Inaccessibility, essential maps, and shape theory. 90f:54029
 Chigogidze, A. Ch. n -shapes and n -cohomotopy groups of compacta. 90f:54056
 Choi, Jung-In K. (with Woo, Moo Ha) UV^∞ -maps that are fine homotopy equivalences. 90i:55015
 Gevorkyan, P. S. Majorants for G -movable compact spaces. 90f:54031
 Mayer, J. C. see Brechner, B. L.; et al., 90f:54029
 Tezer, Cem Shape classification of Klein-bottle-like continua. 90g:54028
 Tymchatyn, E. D. see Brechner, B. L.; et al., 90f:54029
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55P60 Localization and completion

- Deleanu, Aristide Compact homotopy functors and the equivariant Sullivan profinite completion. 90f:55021
 Dror Farjoun, Emmanuel (with Orr, K.; Shelah, Saharon) Bousfield localization as an algebraic closure of groups. 90j:55016
 Iwase, Norio A continuous localization and completion. 90h:55015
 Maruyama, Ken-ichi Localization of a certain subgroup of self-homotopy equivalences. 90d:55015
 Meyer, Jean-Pierre Cosimplicial homotopies. 90d:55016
 Möller, Jesper Michael Self-homotopy equivalences of $H_*(-; \mathbb{Z}/p)$ -local spaces. 90i:55019
 Oda, Nobuyuki (with Shitanda, Yoshimi) Equivariant phantom maps. 90d:55017
 — (with Shitanda, Yoshimi) Localization, completion and detecting equivariant maps on skeletons. 90c:55021
 Orr, K. see Dror Farjoun, Emmanuel; et al., 90j:55016
 Peschke, Georg Localizing groups with action. 90j:55017
 Rao, Vidhyanath Morphisms inverted by profinite completion. 90d:55018
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- Alonso, Juan M. Fibrations that are cofibrations. II. 90c:55014
 Burghelien, Dan A localization theorem for functional S^1 -spaces. 90d:55010
 Ewing, John H. (with Löffler, Peter; Pedersen, Erik K.) A local approach to the finite obstruction. 90a:57030
 Löffler, Peter see Ewing, John H.; et al., 90a:57030
 Nothern, Dietrich The fixed-point conjecture for p -toral groups. 90a:57053
 Ohkawa, Tetsuaki The injective hull of homotopy types with respect to generalized homology functors. 90j:55013
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 Tanré, Daniel see Scheerer, Hans, 90e:55018
 Yamaguchi, Atsushi On the p -regularity of Stiefel manifolds. 90h:57055

55P62 Rational homotopy theory

- Anick, David J. An R -local Milnor-Moore theorem. 90h:55017
 Bogvad, Rikard (with Jacobson, Carl) Graded Lie algebras of depth one. 90i:55020
 Bousfield, A. K. (with Peterson, Chariya P.; Smith, Larry) The rational homology of function spaces. 90d:55020
 Brown, Edgar H., Jr. (with Sazcarba, Robert H.) On real homotopy theory. 90e:55022
 Golasinski, Marek Rational homotopy type of nilpotent and complete spaces. 90g:55008
 Jacobson, Carl see Bogvad, Rikard, 90i:55020
 Jessup, Barry Rational approximations to L-S category and a conjecture of Ganea. 90e:55023
 Lambre, Thierry Homotopie équivariante et formalité. (English summary) [Equivariant homotopy and formality] 90g:55009
 Lupton, Gregory Intrinsic formality and certain types of algebras. 90k:55016
 Markl, Martin On the rational homotopy Lie algebra of spaces with finite-dimensional rational cohomology and homotopy. (French summary) 90h:55018
 Peterson, Chariya P. see Bousfield, A. K.; et al., 90d:55020
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- Anick, David J. Homotopy exponents for spaces of category two. 90c:55010
 Arkowitz, Martin Categories equivalent to the category of rational H -spaces. 90f:55016
 Burghelien, Dan A localization theorem for functional S^1 -spaces. 90d:55010
 Duman, Ryszard Moore G -spaces which are not co-Hopf G -spaces. 90h:55013
 Félix, Yves (with Lemaire, Jean-Michel) On the mapping theorem for Lusternik-Schnirelmann category. II. 90h:55004

- Krasauskas, R. The rational type of some groups of homeomorphisms. 90c:57031
 Lemaire, Jean-Michel *see* Félix, Yves, 90b:55004
 Oudghiri, A. Un modèle de Sullivan en homotopie modérée. [A Sullivan model in tame homotopy] 90f:55006
 Scheerer, Hans Report on tame homotopy theory via differential forms. 90f:55007
 — (with Tanré, Daniel) Exploration de l'homotopie modérée de W. G. Dwyer. III. (English summary) [Exploring W. G. Dwyer's tame homotopy theory. III] 90b:55003
 Tanré, Daniel *see* Scheerer, Hans, 90b:55003

55P65 Homotopy functors

- Makharadze, L. M. Commutativity of the homotopy functor with the inverse limit of simplicial sets. (Russian) 90c:55009

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- Brown, Ronald ★ Topology. 90b:54001
 Deloane, Aristotle Compact homotopy functors and the equivariant Sullivan profinite completion. 90f:55021
 Lawson, H. Blaine, Jr. Algebraic cycles and homotopy theory. 90b:14008
 Stramaccia, Luciano Homotopy preserving functors. (French summary) 90d:55011

55P91 Equivariant homotopy theory

- Crabb, M. C. Periodicity in $\mathbb{Z}/4$ -equivariant stable homotopy theory. 90j:55018
 Duman, Ryszard On injective rational coefficient systems. 90c:55024
 Dror Farjoun, Emmanuel (with Zabrodsky, Alexander) Fixed points and homotopy fixed points. 90c:55025
 Shimakawa, Kazuhisa Infinite loop G -spaces associated to monoidal G -graded categories. 90h:55017
 Siegel, Jerrold (with Williams, Frank) Uniform bounds for equivariant homotopies. 90b:55019
 Williams, Frank *see* Siegel, Jerrold, 90b:55019
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- Items with secondary classifications in 55P91
- Lambre, Thierry Homotopie équivariante et formalité. (English summary) [Equivariant homotopy and formality] 90g:55009
 Mitchell, Stephen A. (with Priddy, Stewart) A double coset formula for Levi subgroups and splitting BGL_n . 90f:55015
 Priddy, Stewart *see* Mitchell, Stephen A., 90f:55015
 Prieto, Carlos Fluidification of quivers and the Tietze extension theorem for diagrams of topological spaces. 90c:55015

55P99 None of the above, but in this section

- Adams, J. F. (with Haeberly, J.-P.; Jackowski, S.; May, J. P.) A generalization of the Atiyah-Segal completion theorem. 90c:55026
 — (with Haeberly, J.-P.; Jackowski, S.; May, J. P.) A generalization of the Segal conjecture. 90c:55027
 Ayala, R. (with Domínguez Murillo, Eladio; Quintero, A.) Calculations of cylindrical p -homotopy groups. 90f:55022
 — (with Domínguez Murillo, Eladio; Quintero, A.) Proper homotopy exact sequences for proper fibrations. 90f:55023
 Domínguez Murillo, Eladio *see* Ayala, R.; et al., 90f:55022 and 90f:55023
 Gottlieb, Daniel Henry Splitting off tori and the evaluation subgroup of the fundamental group. 90j:55019
 Haeberly, J.-P. *see* Adams, J. F.; et al., 90c:55026 and 90c:55027
 Jackowski, S. (with McClure, James E.) Homotopy approximations for classifying spaces of compact Lie groups. 90m:55012
 — *see also* Adams, J. F.; et al., 90c:55026 and 90c:55027
 May, J. P. *see* Adams, J. F.; et al., 90c:55026 and 90c:55027
 McClure, James E. *see* Jackowski, S., 90m:55012
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 Siegel, Jerrold (with Williams, Frank) Uniform bounds for isoperimetric problems. 90g:55010
 Williams, Frank *see* Siegel, Jerrold, 90g:55010

Items with secondary classifications in 55P99

- Cohen, Frederick R. Artin's braid groups, classical homotopy theory, and sundry other curiosities. 90a:20077
 Das, Tarun Kumar On Stone extensions of homotopic maps. (Serbo-Croatian summary) 90f:54038
 Duflot, Jeanne A Hopf algebra associated to the cohomology of the symmetric groups. 90b:20107
 Hilton, Peter John On the extended genus. 90m:20041
 Krasinkiewicz, J. Homotopy separators and mappings into cubes. 90f:54081
 Mai, Jie Hua (with Tang, Yun) Free deformation retraction in injective metric spaces. 90c:54021
 Makhov, V. V. Some properties of continuous mappings of spheres and problems in combinatorial geometry. (Russian) (see 90b:00005)
 Salvetti, Mario On the homotopy type of the complement to an arrangement of lines in \mathbb{C}^2 . (Italian summary) 90b:32025
 Tang, Yun *see* Mai, Jie Hua, 90c:54021

55Qxx Homotopy groups

55Q05 Homotopy groups, general; sets of homotopy classes

- Anick, David J. Homotopy exponents for spaces of category two. 90c:55010

- Lannes, Jean (with Schwartz, Lionel) Sur les groupes d'homotopie des espaces dont la cohomologie modulo 2 est nilpotente. (English summary) [Homotopy groups of spaces whose cohomology modulo 2 is nilpotent] 90f:55024
 Scheerer, Hans (with Tanré, Daniel) Exploration de l'homotopie modérée de W. G. Dwyer. III. (English summary) [Exploring W. G. Dwyer's tame homotopy theory. III] 90b:55003
 Schwartz, Lionel *see* Lannes, Jean, 90f:55024
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Items with secondary classifications in 55Q05

- Baner, Hans Joachim ★ Algebraic homotopy. 90f:55016
 Extremiana Aldana, José Ignacio (with Hernández, L. J.; Rivas, M. T.) Proper CW-complexes: a category for the study of proper homotopy. 90m:57016
 Hernández, L. J. *see* Extremiana Aldana, José Ignacio; et al., 90m:57016
 Li, Bang He (with Tang, Zi Zhou) Codimension 1 and 2 immersions of lens spaces. 90m:57028
 Maki, H. (with Noiri, Takashi) The pasting lemma for α -continuous maps. (Serbo-Croatian summary) 90f:54038
 Mialla, Guido (with Thomas, Charles B.) On the homotopy set $[B\pi, BG]$ with π finite and G a compact connected Lie group. 90c:55027
 Møller, Jesper Michael Self-maps on twisted Eilenberg-Mac Lane spaces. 90a:55017
 Noiri, Takashi *see* Maki, H., 90f:54038
 Oda, Nobuyuki (with Shitanda, Yoshimi) Localization, completion and detecting equivariant maps on skeletons. 90c:55021
 Priddy, Joseph S. Using subnormality to show the simple connectivity at infinity of a finitely presented group. 90b:20057
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 Shitanda, Yoshimi *see* Oda, Nobuyuki, 90c:55021
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55Q07 Shape groups

Items with secondary classifications in 55Q07

- Chigogidze, A. Ch. n -shapes and n -cohomotopy groups of compacta. 90f:54056
 Mezny, Paul Shape group studies of molecular similarity: shape groups and shape graphs of molecular contour surfaces. 90j:52062

55Q10 Stable homotopy groups

- Baker, Andrew James (with Carlisle, David; Gray, Brayton; Hilditch, S.; Ray, Nigel; Wood, R. M. W.) On the iterated complex transfer. 90d:55021
 Carlisle, David *see* Baker, Andrew James; et al., 90d:55021
 Gray, Brayton *see* Baker, Andrew James; et al., 90d:55021
 Hilditch, S. *see* Baker, Andrew James; et al., 90d:55021
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 Ray, Nigel *see* Baker, Andrew James; et al., 90d:55021
 Sadofsky, Hal Higher p -torsion in the β -family. 90g:55011
 Wood, R. M. W. *see* Baker, Andrew James; et al., 90d:55021
 Zaldívar, Felipe The stable homotopy of $B\mathbb{Z}/4$. 90h:55020

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- Baker, Andrew James (with Clarke, Francis; Ray, Nigel; Schwartz, Lionel) On the Kummer congruences and the stable homotopy of BU . 90c:55003
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 Carter, J. Scott Surgering the equatorial immersion in low dimensions. 90c:57058b
 — Surgery on the equatorial immersion. I. 90c:57058a
 Clarke, Francis *see* Baker, Andrew James; et al., 90c:55003
 Crabb, M. C. (with Knapp, K.) The Hurewicz map on stunted complex projective spaces. 90d:55024
 Knapp, K. Stably spherical classes in the K -homology of a finite group. 90c:55012
 — *see also* Crabb, M. C., 90d:55024
 Kulich, James A quotient of the iterated Singer construction. 90j:55026
 Ratto, Andrea Harmonic maps of spheres and the Hopf construction. 90j:58035
 Ray, Nigel *see* Baker, Andrew James; et al., 90c:55003
 Schwartz, Lionel *see* Baker, Andrew James; et al., 90c:55003

55Q15 Whitehead products and generalizations

- Hardie, K. A. A note on products of the Whitehead type. 90g:55012
 — (with Jansen, A. V.) A Whitehead product for track groups. 90j:55020
 Jansen, A. V. *see* Hardie, K. A., 90j:55020
 Lin, Wen Hsiung Projectivity of the Whitehead product in spheres. 90m:55013

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- Markl, Martin On the rational homotopy Lie algebra of spaces with finite-dimensional rational cohomology and homotopy. (French summary) 90b:55018

55Q25 Hopf invariants

- Moore, John C. (with Neisendorfer, Joseph) Equivalence of Toda-Hopf invariants. 90g:55013
 Neisendorfer, Joseph *see* Moore, John C., 90g:55013

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- Govindarajan, T. R. (with Shankar, Ramachandran) Novel topological features of the $O(3)$ nonlinear sigma model in $2+1$ dimensions. 90g:81235
 Shankar, Ramachandran *see* Govindarajan, T. R., 90g:81235

55Q30 Homotopy groups of triads, n -ads

Brown, Ronald Triadic Van Kampen theorems and Hurewicz theorems. 90k:55018

55Q35 Operations in homotopy groups

Klippenstein, John (with Smith, Victor) A conjecture of Barratt-Jones-Mahowald concerning framed manifolds having Kervaire invariant one. 90c:55011
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55Q40 Homotopy groups of spheres

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Ravenel, Douglas C. Homotopy groups of spheres on a small computer. 90e:55028
Thompson, Robert D. The v_1 -periodic homotopy groups of an unstable sphere at odd primes. 90j:55021

Items with secondary classifications in 55Q40

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— Triviality of products of β -elements in the stable homotopy group of spheres. 90c:55012
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55Q50 The J -morphism [see also 19L20]

Charney, R. M. (with Cohen, Frederick R.) A stable splitting for the mapping class group. 90a:55021
Cohen, Frederick R. (with Peterson, F. P.) Some remarks on the space $\text{Im } J$. 90k:55004
— see also Charney, R. M., 90a:55021
Davis, Donald M. (with Mahowald, Mark) The image of the stable J -homomorphism. 90c:55013
Kono, Susumu (with Tamamura, Akie) J -groups of suspensions of stunted lens spaces mod 4. 90m:55014
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Baker, Andrew James (with Clarke, Francis; Ray, Nigel; Schwartz, Lionel) On the Kummer congruences and the stable homotopy of $\mathbb{H}\mathbb{U}$. 90e:55003
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Huseini, S. Y. G^m -fiber homotopy equivalence. 90k:57043
Jeanpoux, Denis Sur la cohomologie entière du groupe linéaire général et du groupe linéaire spécial sur un corps fini. (English summary) [On the integral cohomology of the general linear and special linear groups over a finite field] 90t:20055
Kobayashi, Tetschi On the J -group of the quaternionic spherical space form S^{4n+3}/H_3 . 90f:55008
Komatsu, Kazushi The order of the canonical element in $\tilde{J}(N^*(4))$ and an application. 90e:55008
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Schwartz, Lionel see Baker, Andrew James; et al., 90e:55003

55Q52 Homotopy groups of special spaces

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— (with Knapp, K.) James numbers. 90a:55022
Davis, Donald M. (with Mahowald, Mark) The $\text{SO}(n)$ -of-origin. 90h:55021
Imaoka, Mitsunori On the Adams filtration of a generator of the free part of $\pi_2(Q_n)$. 90h:55022
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Mahowald, Mark see Davis, Donald M., 90h:55021

Selick, P. S. Moore conjectures. 90c:55014
Shitanda, Yoshimi On the homotopy groups of $\text{Map}_*(BH, X)$. 90a:55023
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Weid, Kathrya Computability, homotopy and twisted Cartesian products. 90g:55014

Items with secondary classifications in 55Q52

Church, P. T. (with Timourian, J. G.) Critical values of Fredholm maps. 90c:58027
Lawson, H. Blaine, Jr. (with Michelson, Marie-Louise) Algebraic cycles, Bott periodicity, and the Chern characteristic map. 90d:14010
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Okubo, Susumu (with Zhang, Huazhong) Global gauge anomaly of classical groups in even dimension. 90m:22050
Sociu, Alexander I. Iterated spinning and homology spheres. 90m:57014
Timourian, J. G. see Church, P. T., 90c:58027
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55Q55 Cohomotopy groups

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van der Kallen, Wilberd A module structure on certain orbit sets of unimodular rows. 90k:18013
Maruyama, Ken-ichi e -invariants on the stable cohomotopy groups of Lie groups. 90a:55032

55Q70 Homotopy groups of special types [see also 55N05, 55N07]

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55Q91 Equivariant homotopy groups

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55Q99 None of the above, but in this section

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Hayashi, Kiyoshi Abhomotopy groups and creation-annihilation of defects in ordered media. 90d:82052
Howie, James The quotient of a free product of groups by a single high-powered relator. I. Pictures. Fifth and higher powers. 90j:20055
Zhao, Wan Zhong Fundamental groups of fuzzy topological spaces. (Chinese) 90j:54007

55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]**55R05 Fiber spaces**

Berrick, A. J. Fibrations with Hopfian properties. 90i:55027
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Ghazal, Tahsin Some remarks on the orientability of spherical fibrations. (Arabic summary) 90a:55025
Kono, Akira (with Shiga, Hiroo; Teruka, Michishige) A note on the cohomology of a fiber space whose fiber is a homogeneous space. 90i:55028
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Kim, Byung Hak Fibred Riemannian spaces with contact structure. 90e:53009
Kozłowski, Andrzej² Transfers in the group of multiplicative units of the classical cohomology ring and Stiefel-Whitney classes. 90i:55004

- Lambert, Dominique (with Kibler, M.) Levi-Civita, Kustaanheimo-Stiefel and other transformations. 90j:58049
 Mackenzie, Kirill On extensions of principal bundles. 90j:53053
 Shandra, I. G. Horizontally equidistant fibre spaces. 90c:53032
 Toruńczyk, H. (with West, James) Fibrations and bundles with Hilbert cube manifold fibers. 90a:57026
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55R10 Fiber bundles

- Ivan, G. On the cohomology of a Jordan-Hölder tissue. 90h:55024
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 Tulczyjew, W. M. (with Urbański, P.; Zakrzewski, Stanisław) A pseudocategory of principal bundles. (Italian summary) 90g:55015
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- Besenti, S. (with Tulczyjew, W. M.) Canonical affine bundles. (Italian summary) 90c:58061
 Dubois-Violette, M. (with Madore, J.; Kerner, R.) Gauge bosons in a noncommutative geometry. 90c:81107
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 Hector, Gilbert (with Ghys, Étienne; Moriyama, Yoichi) On codimension one nilfoliations and a theorem of Malcev. 90g:57024
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 Kolář, Ivan (with Slovák, Jan) On the geometric functors on manifolds. 90j:58002
 Kono, Akira (with Shiga, Hiroo; Tezuka, Michishige) A note on the cohomology of a fiber space whose fiber is a homogeneous space. 90i:55028
 Laquer, H. Turner Invariant gauge automorphisms of homogeneous principal bundles. 90c:53044
 Lee, Kyung Bai (with Raymond, Frank) Seifert manifolds modelled on principal bundles. 90f:57041
 Madore, J. see Dubois-Violette, M.; et al., 90c:81107
 Michor, Peter W. Gauge theory for diffeomorphism groups. 90f:58022
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 Nikolov, Blagovest (with Trifonov, D. A.) Stochastic quantization and geometry of quantum phase space. (Russian summary) 90h:81046
 Radu, F. Applications avec structures particulières. (Romanian summary) [Mappings with particular structures] 90i:53036
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- Feshbach, Mark Topology and physics. 90f:55022

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- Baker, Andrew James (with Carlisle, David; Gray, Brayton; Hilditch, S.; Ray, Nigel; Wood, R. M. W.) On the iterated complex transfer. 90d:55021
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 Lück, Wolfgang (with Ranicki, Andrew) Surgery transfer. 90h:57041
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55R15 Classification

- Crabb, M. C. (with Gonçalves, D. L.) On the space of matrices of given rank. 90a:55026
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 Morgan, Christopher Charles Gradigle (with Piccinini, Renzo A.) Conjugacy classes of groups of bundle automorphisms. 90i:55029
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55R20 Spectral sequences and homology of fiber spaces

[see also 55Txx]

Items with secondary classifications in 55R20

- Mazzeo, Rafe R. (with Melrose, Richard B.) The adiabatic limit, Hodge cohomology and Leray's spectral sequence for a fibration. 90m:58004
 Melrose, Richard B. see Mazzeo, Rafe R., 90m:58004

55R25 Sphere bundles and vector space bundles

- Ishimoto, Hiroyasu On an extension of the James-Whitehead theorem about sphere bundles over spheres. 90d:55025
 Radu, F. Applications et morphismes de fibrés vectoriels avec structures particulières. [Mappings and morphisms of vector bundles with particular structures] 90i:55030
 Samsonowicz, Jan Kernels of vector bundles morphisms. 90c:55015

Items with secondary classifications in 55R25

- Berrick, A. J. (with Randall, Duane) On equivariant maps and immersions of real projective spaces. 90c:57024
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 Ng, Tze Beng Vector bundles over $(8k+5)$ -dimensional manifolds. 90i:57016
 Randall, Duane see Berrick, A. J., 90c:57024
 Stavre, Petre (with Virilan, Ion) Remarkable connections on the total space of a vector bundle. 90i:53052
 Virilan, Ion see Stavre, Petre, 90i:53052

55R35 Classifying spaces of groups and H -spaces

- Aguiar, J. Constructing modular classifying spaces. 90m:55016
 Bauer, Stefan On the Segal conjecture for compact Lie groups. 90j:55023
 Feshbach, Mark (with Priddy, Stewart) Stable splittings associated with Chevalley groups. I, II. 90d:55026
 Frohlinger, John A. Maximal homotopy Lie subgroups of maximal rank. 90c:55016
 Gray, Brayton (with Ray, Nigel) Splitting CP^∞ and BZ/p^2 into Thom spectra. 90i:55031
 Harris, John C. A stable decomposition of BSD_{16} . 90c:55031
 Jackowski, S. (with McClure, James E.; Oliver, Robert) Self-maps of classifying spaces of compact simple Lie groups. 90f:55023
 Lim, Pyung-Ki Stable splittings of BG for groups with periodic cohomology and universal stable elements. 90j:55024
 Masbaum, Gregor Sur l'algèbre de cohomologie entière du classifiant du groupe de jauge. (English summary) [On the integral cohomology algebra of the classifying space of the gauge group] 90c:55032
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- Aguiar, J. Computing Lannes T functor. 90h:55026
 Bahri, Anthony (with Bendersky, Martin; Gilkey, Peter B.) The relationship between complex bordism and K -theory for groups with periodic cohomology. 90i:57022
 Bendersky, Martin see Bahri, Anthony; et al., 90i:57022
 Carlisle, David (with Kuhn, Nicholas J.) Smash products of summands of $B(Z/p)^n$. 90i:55017
 Cohen, Frederick R. (with Peterson, F. P.) Some remarks on the space $Im J$. 90h:55004
 Dwyer, W. G. R -nilpotency in homotopy equivalences. 90h:55032
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 Hubbuck, J. R. (with Mimura, Mamoru) The number of mod p $A(p)$ -spaces. 90a:55018
 Iwase, Norio (with Mimura, Mamoru) Higher homotopy associativity. 90f:55017
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 Zaldívar, Felipe The stable homotopy of $BZ/4$. 90h:55020

55R40 Homology of classifying spaces, characteristic classes [see also 57Txx, 57R20]

- Lu, Ning A universal bundle map and characteristic classes. 90f:55024
 Mislis, Guido On the characteristic ring of flat bundles defined over a number field. 90i:55032
 Papastavridis, Stavros The image of $H_*(BSO; Z_2)$ in $H_*(BO; Z_2)$. 90m:55017
 — The image of $H_*(BSU; Z_p)$ in $H_*(BU; Z_p)$. 90m:55018

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- Bonora, L. (with Cotta-Ramusino, P.; Rinaldi, M.; Stasheff, James D.) Anomalies and the evaluation map. 90i:53094
 Cotta-Ramusino, P. see Bonora, L.; et al., 90i:53094
 Davis, James Frederic (with Milgram, R. James) Semicharacteristics, bordism, and free group actions. 90d:57036
 Feshbach, Mark Topology and physics. 90f:55022
 Henn, Hans-Werner (with Lannes, Jean; Schwartz, Lionel) Analytic functors, unstable algebras and cohomology of classifying spaces. 90j:55025
 Huebschmann, Johannes Change of rings and characteristic classes. 90h:18015
 Jackowski, S. (with McClure, James E.) Homotopy approximations for classifying spaces of compact Lie groups. 90m:55012
 Lalonde, François Classes caractéristiques isotropes. [Isotropic characteristic classes] 90k:58069
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 McClure, James E. see Jackowski, S., 90m:55012
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 Peterson, F. P. A -generators for certain polynomial algebras. 90a:55031
 Ribeiro, C. F. M. KO -groups of the Stiefel manifolds $V_{k,A}$ and $V_{k,S}$. 90g:55003
 Rinaldi, M. see Bonora, L.; et al., 90i:53094

- Schwartz, Lionel *see* Henn, Hans-Werner; et al., 90j:55025
 Smith, Victor ★ Topological methods in Galois representation theory. 90f:12005
 Stasheff, James D. *see* Bonora, L.; et al., 90i:53094
 Tenzka, Michiaki (with Yagita, N.) Cohomology of finite groups and Brown-Peterson cohomology. 90i:55011
 Valsman, Izan Classes caractéristiques secondaires en géométrie symplectique. [Secondary characteristic classes in symplectic geometry] 90c:58066
 Yagita, N. *see* Tenzka, Michiaki, 90i:55011
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55R45 Homology and homotopy of BO and BU ; Bott periodicity [see also 19L99]

Items with secondary classifications in 55R45

- Davis, Donald M. (with Mahowald, Mark) The $SO(n)$ -of-origin. 90h:55021
 Jardine, J. F. Universal Hasse-Witt classes. 90h:14027
 Jaworski, Jan Maps of Stiefel manifolds and a Borsuk-Ulam theorem. 90k:55003
 Mahowald, Mark *see* Davis, Donald M., 90h:55021
 Madsen, Gregor Sur l'algèbre de cohomologie entière du classifiant du groupe de jauge. (English summary) [On the integral cohomology algebra of the classifying space of the gauge group] 90c:55032
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 Rao, Vidhyanath On the Morava K -theories of $SO(2n+1)$. 90k:55011

55R50 Stable classes of vector space bundles, K -theory [see also 19L99] [For algebraic K -theory, see 18F25, 19-XX.]

- Ajeanmohi, M. O. Some results on the real K -theory of certain homogeneous spaces. 90c:55028
 Fredricks, Gregory A. (with Gilkey, Peter B.; Parker, Phillip E.) A higher order invariant of differential manifolds. 90h:55025
 Gilkey, Peter B. *see* Fredricks, Gregory A.; et al., 90h:55025
 Hegensharth, Friedrich On the K -theory of the classifying spaces of the general linear groups over finite fields. 90c:55017
 Parker, Phillip E. *see* Fredricks, Gregory A.; et al., 90h:55025
 Rivadeneyra Pérez, Juan J. The order and the characteristic classes of a stable vector bundle. 90d:55027

Items with secondary classifications in 55R50

- Ahn, Seung Ho *see* Lee, Ke An; et al., 90c:55013
 (Anderson, Donald W.) *see* Atiyah, Michael, 90m:18011
 Atiyah, Michael ★ K -theory. 90m:18011
 Freitas, Raphael K -théorie réelle des variétés de Stiefel quaternioniques. (English summary) [KO-theory of quaternionic Stiefel manifolds] 90j:55009
 Ghazal, Tahsin Some remarks on the orientability of spherical fibrations. (Arabic summary) 90c:55025
 Jeon, Won-Kee *see* Lee, Ke An; et al., 90c:55013
 Kobayashi, Teichirō The orders of the canonical elements in $\tilde{K}(L^*(\mathbb{Z}^n))$ and an application. 90c:55010
 Lee, Ke An (with So, Kwangho; Jeon, Won-Kee; Ahn, Seung Ho) Computations of some $\tilde{K}_P(S^n)$ and $\tilde{K}_P(P_3(\mathbb{R}))$. 90c:55013
 Markl, Martin The real K -ring of some CW-complexes of small dimension. 90a:55014
 Minami, Haruo The real K -groups of $SO(n)$ for $n \equiv 2 \pmod{4}$. 90m:55006
 Ribeiro, C. F. M. KO-groups of the Stiefel manifolds $V_{n,k}$ and $V_{n,k}^*$. 90g:55003
 So, Kwangho *see* Lee, Ke An; et al., 90c:55013

55R55 Fiberings with singularities

Items with secondary classifications in 55R55

- Dyer, Eldon (with Eilenberg, Samuel) Globalizing fibrations by schedules. 90a:55024
 Eilenberg, Samuel *see* Dyer, Eldon, 90a:55024
 Lee, Kyung Bai (with Raymond, Frank) Seifert manifolds modelled on principal bundles. 90f:57041
 Raymond, Frank *see* Lee, Kyung Bai, 90f:57041

55R65 Generalizations of fiber spaces and bundles

- Hardie, K. A. (with Kamps, K. H.) Track homotopy over a fixed space. (Serbo-Croatian summary) 90k:55020
 Kamps, K. H. *see* Hardie, K. A., 90k:55020

Items with secondary classifications in 55R65

- Bödigheimer, C.-F. (with Cohen, Frederick R.; Taylor, Laurence R.) On the homology of configuration spaces. 90h:57031
 Cohen, Frederick R. *see* Bödigheimer, C.-F.; et al., 90h:57031
 Dyer, Eldon (with Eilenberg, Samuel) Globalizing fibrations by schedules. 90a:55024
 Eilenberg, Samuel *see* Dyer, Eldon, 90a:55024
 Samsonowicz, Jan Kernels of vector bundles morphisms. 90c:55015
 Taylor, Laurence R. *see* Bödigheimer, C.-F.; et al., 90h:57031
 Ulrich, Hanno ★ Fixed point theory of parametrized equivariant maps. 90h:57045

55R91 Equivariant fiber spaces and bundles

- Kamishima, Yoshinobu Conformal circle actions on 3-manifolds. 90f:55025

Items with secondary classifications in 55R91

- Prieto, Carlos The K -theory of diagrams. (Spanish) 90d:55007
 Sardannashvili, G. A. (with Zakharov, O.) Gauge transformations in gravitation theory. 90k:53116
 Zakharov, O. *see* Sardannashvili, G. A., 90k:53116

55R99 None of the above, but in this section

- Chigogidze, A. Ch. Trivial bundles and near-homeomorphisms. 90f:55026
 Yang, Hua Jian Fiber bundle expressions for cobordism classes. (Chinese) (Not in MR)

Items with secondary classifications in 55R99

- Bödigheimer, C.-F. (with Cohen, Frederick R.) Rational cohomology of configuration spaces of surfaces. 90c:57075
 Carlip, Steven (with DeWitt-Morette, Cécile) Where the sign of the metric makes a difference. 90m:81096a
 — (with DeWitt-Morette, Cécile) Erratum: "Where the sign of the metric makes a difference". 90m:81096b
 Cohen, Frederick R. *see* Bödigheimer, C.-F., 90c:57075
 DeWitt-Morette, Cécile *see* Carlip, Steven, 90m:81096a and 90m:81096b
 Dwyer, W. G. (with Miller, Haynes; Neisendorfer, Joseph) Fibrewise completion and unstable Adams spectral sequences. 90i:55034
 Kucharz, W. How to make vector bundles algebraic. 90m:14018
 Miller, Haynes *see* Dwyer, W. G.; et al., 90i:55034
 Neisendorfer, Joseph *see* Dwyer, W. G.; et al., 90i:55034
 Shlosman, S. B. Gauge-invariant description of gauge fields. 90h:81123

55Sxx Operations and obstructions

55S05 Primary cohomology operations

- Cenkli, Bohuml Cohomology operations from higher products in the de Rham complex. 90c:55016
 Duflot, Jeanne Additive cohomology operations. 90h:55006

Items with secondary classifications in 55S05

- Kane, Richard M. ★ The homology of Hopf spaces. 90f:55018

55S10 Steenrod algebra

- Aguiar, J. Computing Lannes T functor. 90h:55026
 Anick, David J. On the homogeneous invariants of a tensor algebra. 90i:55033
 Carlisle, David (with Kuhn, Nicholas J.) Subalgebras of the Steenrod algebra and the action of matrices on truncated polynomial algebras. 90c:55018
 Henn, Hans-Werner (with Lannes, Jean; Schwartz, Lionel) Analytic functors, unstable algebras and cohomology of classifying spaces. 90j:55025
 — Classifying spaces with injective mod p cohomology. 90d:55028
 Inoue, Kouichi On a geometric realization of $\mathcal{A}(2)$. 90c:55029
 Kuhn, Nicholas J. *see* Carlisle, David, 90c:55018
 Kulich, James A quotient of the iterated Singer construction. 90j:55026
 Lannes, Jean (with Schwartz, Lionel) Sur la structure des A -modules instables injectifs. [On the structure of injective unstable A -modules] 90h:55027
 — *see also* Henn, Hans-Werner; et al., 90j:55025
 Lin, Wen Hsiung A Koszul algebra whose cohomology is the E_3 -term of the May spectral sequence for the Steenrod algebra. 90h:55021
 Lomonaco, Luciano A remark on the total squaring operation. (Italian summary) 90c:55019
 Nguyễn Hà's Việt Hu'ng *see* Nguyễn Nam Hai, 90m:55019
 Nguyễn Nam Hai (with Nguyễn Hà's Việt Hu'ng) Steenrod operations on mod 2 homology of the iterated loop space. 90m:55019
 Oruç, Melda Yaman The equivariant Steenrod algebra. 90h:55028
 Peterson, F. P. A -generators for certain polynomial algebras. 90a:55031
 Schwartz, Lionel *see* Lannes, Jean, 90h:55027 and Henn, Hans-Werner; et al., 90j:55025
 Wood, R. M. W. Steenrod squares of polynomials and the Peterson conjecture. 90a:55030

Items with secondary classifications in 55S10

- Bruner, Robert R. Calculation of large Ext modules. 90g:18010
 Campbell, H. E. A. (with Selick, P. S.) On the semi-tensor product of the Dyer-Lashof and Steenrod algebras. 90h:55029
 Cohen, Frederick R. (with Peterson, F. P.) Some remarks on the space $\text{Im } J$. 90h:55004
 Lannes, Jean (with Schwartz, Lionel) Sur les groupes d'homotopie des espaces dont la cohomologie modulo 2 est nilpotente. (English summary) [Homotopy groups of spaces whose cohomology modulo 2 is nilpotent] 90i:55024
 Peterson, F. P. *see* Cohen, Frederick R., 90h:55004
 Ribeiro, C. F. M. KO-groups of the Stiefel manifolds $V_{n,k}$ and $V_{n,k}^*$. 90g:55003
 Schwartz, Lionel *see* Lannes, Jean, 90h:55024
 Selick, P. S. *see* Campbell, H. E. A., 90h:55029
 Singer, William M. The transfer in homological algebra. 90i:55035
 Zhou, Xue Guang Higher cohomology operations that detect homotopy classes. 90g:55017

55S12 Dyer-Lashof operations

- Aguiar, M. A. Dyer-Lashof operations on topological abelian monoids. 90d:55029
 Campbell, H. E. A. (with Selick, P. S.) On the semi-tensor product of the Dyer-Lashof and Steenrod algebras. 90h:55029
 Selick, P. S. *see* Campbell, H. E. A., 90h:55029

Items with secondary classifications in 55S12

- Boyer, C. P. (with Mann, Benjamin M.) Instantons and homotopy. 90f:58031
 Mann, Benjamin M. *see* Boyer, C. P., 90f:58031

55S15 Symmetric products, cyclic productsLöffler, Peter *see* Milgram, R. James, 90c:55033

Milgram, R. James (with Löffler, Peter) The structure of deleted symmetric products. 90c:55033

55S20 Secondary and higher cohomology operations

Zhou, Xue Guang Higher cohomology operations that detect homotopy classes. 90g:55017

Items with secondary classifications in 55S20

Boyer, C. P. (with Mann, Benjamin M.) Instantons and homotopy. 90f:58031

Kane, Richard M. \star The homology of Hopf spaces. 90f:55018

Lam, K. Y. (with Yiu, P. Y. H.) Geometry of normed bilinear maps and the 16-square problem. 90g:11047

Lin, James P. (with Williams, Frank) On 6-connected finite H -spaces with two torsion. 90d:55013Mann, Benjamin M. *see* Boyer, C. P., 90f:58031Williams, Frank *see* Lin, James P., 90d:55013Yiu, P. Y. H. *see* Lam, K. Y., 90g:11047**55S25 K -theory operations and generalized cohomology operations [see also 19D99, 19L99]**Baker, Andrew James Some families of operations in Morava K -theory. 90d:55030tom Dieck, Tammo The Artin-Hasse logarithm for λ -rings. 90d:55031Maruyama, Ken-ichi e -invariants on the stable cohomotopy groups of Lie groups. 90a:55032

Items with secondary classifications in 55S25

Hong, Sungpyo *see* Kwak, Jin Ho; et al., 90f:57036

Kwak, Jin Ho (with Hong, Sungpyo; Sohn, Moo Young) Nonembeddability and nonimmersionability of a product Dold manifold. 90f:57036

Minami, Haruo The real K -groups of $SO(n)$ for $n \equiv 2 \pmod{4}$. 90m:55006Ribeiro, C. F. M. KO -groups of the Stiefel manifolds $V_{n,k}$ and $V_{n,k}^*$. 90g:55003Sohn, Moo Young *see* Kwak, Jin Ho; et al., 90f:57036**55S30 Massey products**

Items with secondary classifications in 55S30

Stein, David Walter Jacques Massey products in the cohomology of groups with applications to link theory. 90f:57010

55S35 Obstruction theory

Arlettaz, Dominique Characteristic classes and obstruction theory for infinite loop spaces. 90f:55027

DeWitt-Morette, Cécile Topological obstructions to Pin structures. 90h:55030

Items with secondary classifications in 55S35

Cohen, Ralph L. (with Tillmann, Ulrike) Lectures on immersion theory. 90c:57025

Dwyer, W. G. (with Kan, D. M.) Hochschild-Mitchell cohomology of simplicial categories and the cohomology of simplicial diagrams of simplicial sets. 90g:18011

Hájěšek, Petr Reducibility of parametrized systems. 90h:33039

Kan, D. M. *see* Dwyer, W. G., 90g:18011Tillmann, Ulrike *see* Cohen, Ralph L., 90c:57025**55S36 Extension and compression of mappings**Morisugi, Kaoru Lifting problem of η and Mahowald's element η_j . 90h:55031**55S37 Classification of mappings**Dwyer, W. G. R -nilpotency in homotopy equivalences. 90h:55032Yoon, Yeon Soo On n -cyclic maps. 90j:55027

Items with secondary classifications in 55S37

Jackowski, S. (with McClure, James E.; Oliver, Robert) Self-maps of classifying spaces of compact simple Lie groups. 90f:55023

McClure, James E. *see* Jackowski, S.; et al., 90f:55023Oliver, Robert *see* Jackowski, S.; et al., 90f:55023**55S40 Sectioning fiber spaces and bundles**

Items with secondary classifications in 55S40

Koecherke, Ulrich The singularity method and immersions of m -manifolds into manifolds of dimensions $2m-2$, $2m-3$ and $2m-4$. 90h:57039**55S45 Postnikov systems, k -invariants**Arlettaz, Dominique On the k -invariants of iterated loop spaces. 90d:55032— The first k -invariant of a double loop space is trivial. 90j:55028Fan Ngok An' Kyong Orders of k -invariants in cobordism theory with singularities. (Russian) 90d:55033

Items with secondary classifications in 55S45

Arlettaz, Dominique Characteristic classes and obstruction theory for infinite loop spaces. 90f:55027

Smith, Justin R. Topological realizations of chain complexes. II. The rational case. 90h:55022

Weld, Kathryn Computability, homotopy and twisted Cartesian products. 90g:55014

55S91 Equivariant operations and obstructions

Items with secondary classifications in 55S91

Dror Farjoun, Emmanuel (with Zabrodsky, Alexander) Fixed points and homotopy fixed points. 90c:55025

Zabrodsky, Alexander *see* Dror Farjoun, Emmanuel, 90c:55025**55S99 None of the above, but in this section**Smirnov, V. A.³ Functional homology operations and weak homotopy type. 90h:55033

Items with secondary classifications in 55S99

Ramsay, John R. Extensions of Ljusternik-Schnirelmann category theory to relative and equivariant theories with an application to an equivariant critical point theorem. 90c:55005

55Txx Spectral sequences [see also 18G40, 55R20]**55T05 General**

Items with secondary classifications in 55T05

Jardine, J. F. The Leray spectral sequence. 90h:18020

55T15 Adams spectral sequencesCurtis, Edward (with Mahowald, Mark) EHP computations of $E_2(S^n)$. 90c:55034

Dwyer, W. G. (with Miller, Haynes; Neisendorfer, Joseph) Fibrewise completion and unstable Adams spectral sequences. 90h:55034

Hikida, Mitsuho Relations between several Adams spectral sequences. 90h:55034

Mahowald, Mark *see* Curtis, Edward, 90c:55034Miller, Haynes *see* Dwyer, W. G.; et al., 90i:55034Neisendorfer, Joseph *see* Dwyer, W. G.; et al., 90i:55034

Singer, William M. The transfer in homological algebra. 90i:55035

Items with secondary classifications in 55T15

Davis, Donald M. (with Mahowald, Mark) The image of the stable J -homomorphism. 90c:55013Imaoka, Mitsunori On the Adams filtration of a generator of the free part of $\pi_*(Q_n)$. 90h:55022

Lin, Jin Kun Second periodicity elements in the stable homotopy groups of spheres. 90a:55020

Mahowald, Mark *see* Davis, Donald M., 90c:55013Sadofsky, Hal Higher p -torsion in the β -family. 90g:55011Shimomura, Katsumi On the products $\beta_i \beta_j$ in the stable homotopy groups of spheres. 90j:55022Thompson, Robert D. Unstable v_1 -periodic homotopy groups of a Moore space. 90c:55029

Zhou, Xue Guang Higher cohomology operations that detect homotopy classes. 90g:55017

55T25 Generalized cohomology

Items with secondary classifications in 55T25

Klappenstein, John The bu cohomology of $BP(n)$. 90g:55004Rao, Vidhyanath On the Morava K -theories of $SO(2n+1)$. 90h:55011**55T99 None of the above, but in this section**

Blanc, David A. A Hurewicz spectral sequence for homology. 90f:55028

Items with secondary classifications in 55T99

Alvarez López, Jesús A. Duality in the spectral sequence of Riemannian foliations. 90h:58004

Costinescu, Cristian Nicolae The Z_2 -graded structure of $KO^*(Sp(n))$ groups. (Romanian) 90d:55006— K -théorie complexe de certains $U(n)$ -espaces. [Complex K -theory of certain $U(n)$ -spaces] 90c:55007

Dydak, Jerzy (with Walsh, John J.) Cohomological local connectedness of decomposition spaces. 90c:55012

Khmalin, A. A. Cohomology of small categories with coefficients in an abelian category with exact products. 90h:18021

Lin, Wen Hsiung A Koszul algebra whose cohomology is the E_2 -term of the May spectral sequence for the Steenrod algebra. 90h:55021

Pittie, Harsh V. The nondegeneration of the Hodge-de Rham spectral sequence. 90h:32062

Prasolov, A. V. A spectral sequence for strong homology. (Serbo-Croatian summary) 90m:18014

Shitanda, Yoshiaki On the Maunder type theorems in the ex-homotopy category. 90h:55023

Walsh, John J. *see* Dydak, Jerzy, 90c:55012**55Uxx Applied homological algebra and category theory [see also 18Gxx]****55U05 Abstract complexes**

Items with secondary classifications in 55U05

- Gilbert, N. D. (with Higgins, P. J.) The nonabelian tensor product of groups and related constructions. 90c:20026
 Higgins, P. J. *see* Gilbert, N. D., 90c:20026

55U10 Semisimplicial complexes

- Dwyer, W. G. (with Kan, D. M.) Homology with simplicial coefficients. 90d:55034
 Jardine, J. F. The homotopical foundations of algebraic K-theory. 90j:55029
 Kan, D. M. *see* Dwyer, W. G., 90d:55034

Items with secondary classifications in 55U10

- Andrzejczak, Grzegorz On some sheaf cohomology of semi-simplicial manifolds and their realizations. 90k:55013
 Brown, Edgar H., Jr. (with Szczarba, Robert H.) On real homotopy theory. 90c:55022
 Dwyer, W. G. (with Kan, D. M.; Smith, Jeffrey Henderson) Homotopy commutative diagrams and their realizations. 90d:18007
 Irmator, A. A. (with Trofimov, V. A.) Homology of complete Brouwer lattices. 90j:18006
 Kan, D. M. *see* Dwyer, W. G.; et al., 90d:18007
 Khmalov, A. A. Cohomology of small categories with coefficients in an abelian category with exact products. 90k:18021
 Makharadze, L. M. Commutativity of the homotopy functor with the inverse limit of simplicial sets. (Russian) 90c:55009
 Nan Tie, Gary A Dold-Kan theorem for crossed complexes. 90c:18013
 — Iterated \bar{W} and \bar{T} -groupoids. 90c:18014
 Smith, Jeffrey Henderson *see* Dwyer, W. G.; et al., 90d:18007
 Szczarba, Robert H. *see* Brown, Edgar H., Jr., 90c:55022
 Trofimov, V. A. *see* Irmator, A. A., 90j:18006

55U15 Chain complexes

- Smith, Justin R. Topological realizations of chain complexes. II. The rational case. 90k:55022

Items with secondary classifications in 55U15

- Brown, Dominique Pseudofunctors and nonabelian weak equivalences. 90b:18016
 Brown, Ronald (with Higgins, P. J.) Crossed complexes and chain complexes with operators. 90j:55030
 Cenkl, Bohumil Cohomology operations from higher products in the de Rham complex. 90j:55016
 Higgins, P. J. *see* Brown, Ronald, 90j:55030
 Oudghiri, A. Un modèle de Sullivan en homotopie modérée. [A Sullivan model in tame homotopy] 90f:55006
 Scheerer, Hans Report on tame homotopy theory via differential forms. 90f:55007
 Stora, Raymond Differential algebras in field theory and their anomalies: two examples. 90c:58006

55U30 Duality

Items with secondary classifications in 55U30

- Khazomdys, S. M. Some properties of functors that are dual to homotopy functors. (Russian. English summary) 90k:55019

55U35 Abstract homotopy theory

- Brown, Ronald (with Higgins, P. J.) Crossed complexes and chain complexes with operators. 90j:55030
 Higgins, P. J. *see* Brown, Ronald, 90j:55030
 Rodríguez-Machin, Sergio Homotopy in additive categories. (Spanish. English summary) 90f:55029
 Shitanda, Yoshimi On the Maunder type theorems in the ex-homotopy category. 90k:55023

Items with secondary classifications in 55U35

- Brown, Ronald (with Golasinski, Marek) A model structure for the homotopy theory of crossed complexes. (French summary) 90f:18012
 Golasinski, Marek *see* Brown, Ronald, 90f:18012
 Hardie, K. A. (with Kamps, K. H.) Track homotopy over a fixed space. (Serbo-Croatian summary) 90k:55020
 Hurwitz, Carol M. On the homotopy theory of monoids. 90i:20072
 Kamps, K. H. *see* Hardie, K. A., 90k:55020

55U40 Topological categories

Items with secondary classifications in 55U40

- Iwase, Norio A continuous localization and completion. 90k:55015

55U99 None of the above, but in this section

- Szefer, L. V. Polyhedra and algebraic sets. 90k:55035
 Yun, Dai Sun The cup and cap product of simplicial modules. 90c:55035

Items with secondary classifications in 55U99

- Aznar García, Enrique R. *see* Lirio Terrez, Antonio; et al., 90c:18012
 Brown, Ronald Triadic Van Kampen theorems and Hurewicz theorems. 90k:55018
 — (with Golasinski, Marek) A model structure for the homotopy theory of crossed complexes. (French summary) 90f:18012
 — (with Gilbert, N. D.) Algebraic models of 3-types and automorphism structures for crossed modules. 90c:18015
 Bullejos, M. *see* Lirio Terrez, Antonio; et al., 90c:18012

Gilbert, N. D. *see* Brown, Ronald, 90c:18015

Golasinski, Marek *see* Brown, Ronald, 90f:18012

Guitart, René L'unité de la théorie des modèles et de l'algèbre homologique. (English summary) [The unity of model theory and homological algebra] 90m:18009

Lirio Terrez, Antonio (with Aznar García, Enrique R.; Bullejos, M.) The cohomology groups of an epimorphism. 90c:18012

Meyer, Jean-Pierre Cosimplicial homotopies. 90d:55016

Quillen, Daniel Algebra cochains and cyclic cohomology. 90j:18008

57-XX Manifolds and cell complexes {For complex manifolds, see 32C10.}

57-01 Elementary exposition; textbooks

Items with secondary classifications in 57-01

- Jänich, Klaus ★ Topologie. (German) [Topology] 90m:54002

57-02 Advanced exposition (research surveys, monographs, etc.)

- (Guillon, Lucien) *see* Remembrance of topology past, 90m:57001
 (Gurevich, A. A.) *see* Remembrance of topology past, 90m:57001
 (Marin, Alexis) *see* Remembrance of topology past, 90m:57001
 (Rokhlin, V. A.) *see* Remembrance of topology past, 90m:57001
 (Viro, O. Ya.) *see* Remembrance of topology past, 90m:57001

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- Rokhlin, V. A. ★ В поисках утраченной топологии. (Russian) [Remembrance of topology past] 90m:57001

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Items with secondary classifications in 57-02

- Adams, J. F. Problem session for homotopy theory. 90f:55001
 (Anderson, Donald W.) *see* Atiyah, Michael, 90m:18011
 (Anosov, D. V.) *see* Pontryagin, L. S., 90c:01140
 Atiyah, Michael The impact of physics on geometry. 90d:00055
 — ★ K-theory. 90m:18011
 Dieudonné, Jean ★ A history of algebraic and differential topology. 1900–1960. 90g:01029
 (Gamkrelidze, R. V.) *see* Pontryagin, L. S., 90c:01140 and Current problems in mathematics. Fundamental directions, 90g:55001
 (Mishchenko, E. F.) *see* Pontryagin, L. S., 90c:01140
 Narasimhan, M. S. Topology of compact simply connected smooth four-manifolds. 90i:57009
 Pontryagin, L. S. ★ Избранные научные труды. Том I. (Russian) [Selected scientific works. Vol. I] 90c:01140
 (Postnikov, M. M.) *see* Pontryagin, L. S., 90c:01140

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- Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 24. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 24] 90g:55001

57-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 57-03

- Dieudonné, Jean ★ A history of algebraic and differential topology. 1900–1960. 90g:01029
 Étienne, Émile Réflexions autour du théorème de Dehn. [Reflections on Dehn's theorem] 90k:01016
 (Guillon, Lucien) *see* Remembrance of topology past, 90m:57001
 (Gurevich, A. A.) *see* Remembrance of topology past, 90m:57001
 Haefliger, André Un aperçu de l'œuvre de Thom en topologie différentielle (jusqu'en 1957). [A sketch of Thom's work in differential topology (up to 1957)] 90c:01073
 (Marin, Alexis) *see* Remembrance of topology past, 90m:57001
 (Rokhlin, V. A.) *see* Remembrance of topology past, 90m:57001
 (Thom, René) *see* Haefliger, André, 90c:01073
 (Viro, O. Ya.) *see* Remembrance of topology past, 90m:57001

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57-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 57-04

Michels, J. P. J. (with Wieg, Frederik W.) The distribution of Alexander polynomials of knots confined to a thin layer. 90f:82001

Wieg, Frederik W. see Michels, J. P. J., 90f:82001

57-06 Proceedings, conferences, etc.

(Habegger, N.) see Proceedings: Topology Conference, 90b:57001

(Kawakubo, Katsumi) see Transformation groups, 90a:57002

(McCrory, C.) see Proceedings: Topology Conference, 90b:57001

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Athens, GA ★ Proceedings of the 1987 Georgia Topology Conference. 90b:57001

Conference:

Topology ★ Proceedings of the 1987 Georgia Topology Conference. 90b:57001

Transformation Groups ★ Transformation groups. 90a:57002

Lecture Notes in Mathematics ★ Transformation groups. 90a:57002

On the geometry of differentiable manifolds ★ On the geometry of differentiable manifolds. 90a:57001

Osaka ★ Transformation groups. 90a:57002

Proceedings:

Topology Conference ★ Proceedings of the 1987 Georgia Topology Conference. 90b:57001

Rome ★ On the geometry of differentiable manifolds. 90a:57001

Transformation groups ★ Transformation groups. 90a:57002

Workshop:

On the Geometry of Differentiable Manifolds ★ On the geometry of differentiable manifolds. 90a:57001

Items with secondary classifications in 57-06

(Albert, Claude) see Symplectic and mechanical geometry, 90m:58002

(James, I. M.) see Advances in homotopy theory, 90m:55001

(Jiang, Bo Ju) see Topological fixed point theory and applications, 90i:55001

(Kaminker, J.) see Geometric and topological invariants of elliptic operators, 90k:58206

(Mahowald, Mark) see Algebraic topology, 90b:55001

(Priddy, Stewart) see Algebraic topology, 90b:55001

(Rassias, George M.) see Geometry and topology, 90a:53003

(Salamon, Simon) see Advances in homotopy theory, 90m:55001

(Steer, B.) see Advances in homotopy theory, 90m:55001

(Stratopoulos, George) see Geometry and topology, 90a:53003

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- Noakes, J. L. Fitting maps of the plane to experimental data. 90h:58048
- Okabe, Tsuneharu Some remarks on graph imbeddings. 90g:05072
- Orevkov, S. Yu. The fundamental group of the complement of a plane algebraic curve. 90e:14028
- Orlik, Peter (with Solomon, Louis) Braids and discriminants. 90g:57001
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- Pizer, Adrian Matrices which are knot module matrices. 90e:57044
- Reshetikhin, N. Yu. Quasitriangular Hopf algebras and invariants of links. (Russian) 90k:17033
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- Rovelli, Carlo (with Smolin, Lee) Knot theory and quantum gravity. 90d:83007
- Sannami, Atsuro A topological classification of the periodic orbits of the Hénon family. 90f:58120
- Sen, Siddhartha (with Murphy, Philip) Constraints on two-dimensional conformal field theories from knot invariants. 90k:81246
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- Summers, D. W. Using knot theory to analyze DNA experiments. 90a:92026
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- Tze, Chia Hsiung Manifold-splitting regularization, self-linking, twisting, writhe numbers of space-time ribbons and Polyakov's proof of Fermi-Bose transmutations. 90e:81239
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- Wang, Shi Cheng Cyclic surgery on knots. 90e:57030
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— (with Fomenko, A. T.; Sharko, V. V.) Round Morse functions and isoenergetic surfaces

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- Servati, Tuomas *see* Seppälä, Mika, 90c:32024
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- Čerin, Zdenka On a class of group actions of the Hilbert cube. 90b:57006
 Dijkstra, J. J. (with Dobrowolski, T.; Marciszewski, Witold; van Mill, Jan; Mogilski, J.) Recent classification and characterization results in geometric topology. 90m:57013
 Dobrowolski, T. see Dijkstra, J. J.; et al., 90m:57013
 Heisey, R. E. (with West, James) Orbit spaces of the hyperspace of a graph which are Hilbert cubes. 90a:57024
 Marciszewski, Witold see Dijkstra, J. J.; et al., 90m:57013
 van Mill, Jan \star Infinite-dimensional topology. 90a:57025
 — see also Dijkstra, J. J.; et al., 90m:57013
 Mogilski, J. see Dijkstra, J. J.; et al., 90m:57013
 Sakai, Katsuro A mapping theorem for infinite-dimensional manifolds and its generalizations. 90c:57035
 — The space of cross sections of a bundle. 90e:57036
 — (with Wong, Raymond Y.) The space of Lipschitz maps from a compactum to a locally convex set. 90j:57013
 — A function space triple of a compact polyhedron into an open set in Euclidean space. 90d:57021
 — (with Wong, Raymond Y.) On infinite-dimensional manifold triples. 90g:57017
 Toruńczyk, H. (with West, James) Fibrations and bundles with Hilbert cube manifold fibers. 90a:57026
 West, James see Heisey, R. E., 90a:57024 and Toruńczyk, H., 90a:57026
 Wong, Raymond Y. see Sakai, Katsuro, 90g:57017 and 90j:57013

Items with secondary classifications in 57N20

- Chigogidze, A. Ch. Trivial bundles and near-homeomorphisms. 90f:55026
 Dranishnikov, A. N. Homological dimension theory. 90c:55003
 Massabò, Ivor (with Vignoli, Alfonso) On the théorème fondamental of J. Leray and J. Schauder. 90j:58028
 Mirzakhanyan, R. E. The infinite iteration of the hyperspace functor. 90f:54020
 Montejano, L. Categorical and contractible covers of polyhedra. 90c:55020
 Rohm, Dale M. Products of infinite-dimensional spaces. 90k:54051
 Sakai, Katsuro (with Wong, Raymond Y.) Conjugating homeomorphisms to uniform homeomorphisms. 90a:58019
 Vignoli, Alfonso see Massabò, Ivor, 90j:58028
 Wong, Raymond Y. see Sakai, Katsuro, 90a:58019

57N25 Shapes [see also 54C56, 54F43, 55P55, 55Q07]

Items with secondary classifications in 57N25

- Chigogidze, A. Ch. n -shapes and n -cohomotopy groups of compacta. 90f:54056
 Choi, Jung-In K. (with Woo, Moo Ha) UV^∞ -maps that are fine homotopy equivalences. 90f:55015
 Venema, Gerard A. Neighborhoods of compacta in 4-manifolds. 90a:57023
 Woo, Moo Ha see Choi, Jung-In K., 90f:55015

57N35 Imbeddings and immersions

- Baker, B. J. (with Laidacker, Michael) Embedding uncountably many mutually exclusive continua into Euclidean space. 90j:57014
 Ferry, Steven C. (with Pedersen, Erik K.; Vogel, Pierre) On complements of codimension-3 embeddings in S^n . 90f:57025
 Laidacker, Michael see Baker, B. J., 90j:57014
 Luukkainen, Jouni Respectful deformation of bi-Lipschitz and quasimetric embeddings. 90g:57018
 Pedersen, Erik K. see Ferry, Steven C.; et al., 90f:57025
 Vogel, Pierre see Ferry, Steven C.; et al., 90f:57025

Items with secondary classifications in 57N35

- Block, Ethan D. Simplexwise linear and piecewise linear near self-homeomorphisms of surfaces. 90e:57023
 Hopkins, Michael J. Minimal atlases of real projective spaces. 90f:55004
 Prajs, Janusz R. Homogeneous continua in Euclidean $(n+1)$ -space which contain an n -cube are n -manifolds. 90f:54055
 Väisälä, Jussi Quasiconformal concordance. 90d:30068

57N37 Isotopy and pseudo-isotopy

- Farrell, F. T. (with Jones, Lowell Edwin) Foliated control theory. I, II. 90e:57037
 Jones, Lowell Edwin see Farrell, F. T., 90e:57037
 Maniscalco, L. (with Portolano, A.) The space of closed simple curves and measured foliations on noncompact orientable surfaces. (Italian. English summary) 90e:57038
 Portolano, A. see Maniscalco, L., 90e:57038

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- Luukkainen, Jouni Respectful deformation of bi-Lipschitz and quasimetric embeddings. 90g:57018
 Madsen, I. (with Rothenberg, Melvin) Equivariant pseudo-isotopies and K_{-1} . 90g:57028
 Rothenberg, Melvin see Madsen, I., 90g:57028

57N40 Neighborhoods of submanifolds

- Cauty, Robert Sur le nombre de côtés d'une sous-variété. (English summary) [On the number of sides of a submanifold] 90h:57024

Items with secondary classifications in 57N40

- Farran, H. R. (with Robertson, S. A.) Isometric foldings of discs and spheres. 90k:53082
 Robertson, S. A. see Farran, H. R., 90k:53082

57N45 Flatness and tameness

- Singh, Sukhjit¹ Homotopy groups of arc complements in S^n or Q . 90g:57019

Items with secondary classifications in 57N45

- Ferry, Steven C. (with Pedersen, Erik K.; Vogel, Pierre) On complements of codimension-3 embeddings in S^n . 90f:57025
 Freedman, Michael H. (with Skora, Richard K.) Strange actions of groups on spheres. II. 90f:57042
 Jakobsche, W. (with Repovš, D.) An exotic factor of $S^2 \times \mathbb{R}$. 90k:57019
 Pedersen, Erik K. see Ferry, Steven C.; et al., 90f:57025
 Repovš, D. see Jakobsche, W., 90k:57019
 Skora, Richard K. see Freedman, Michael H., 90f:57042
 Vogel, Pierre see Ferry, Steven C.; et al., 90f:57025
 Wright, David G. Bing-Whitehead Cantor sets. 90d:57020

57N55 Microbundles and block bundles [see also 55R60, 57Q50]

- Montejano, L. (with Rushing, T. B.) Approximating homotopy equivalences by disk bundle projections. (Serbo-Croatian summary) 90a:57027
 Rushing, T. B. see Montejano, L., 90a:57027

57N60 Cellularity

- Daverman, Robert J. (with Repovš, D.) A new 3-dimensional shrinking criterion. 90c:57013
 Repovš, D. see Daverman, Robert J., 90c:57013

Items with secondary classifications in 57N60

- Dranishnikov, A. N. Homological dimension theory. 90c:55003
 — On a problem of P. S. Aleksandrov. 90c:55004
 Venema, Gerard A. Neighborhoods of compacta in 4-manifolds. 90a:57023

57N65 Algebraic topology of manifolds

- Hiraide, K. Positively expansive maps and growth of fundamental groups. 90a:57028
 Sucia, Alexander I. Iterated spinning and homology spheres. 90m:57014

Items with secondary classifications in 57N65

- Brin, Matthew G. (with Thickstun, T. L.) 3-manifolds which are end 1-movable. 90g:57015

- Hoffman, Michael Edward Noncoincidence index, free group actions, and the fixed point property for manifolds. 90a:55006
 Kanasowski, M. Simply connected four-manifolds obtained from weighted homogeneous polynomials. 90i:57008
 Okonek, Christian Fake Enriques surfaces. 90e:57062
 Orlik, Peter ★ Introduction to arrangements. 90i:32018
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CBMS Regional Conference Series in Mathematics see Orlik, Peter, 90i:32018

57N70 Cobordism and concordance

- Cappell, Sylvia E. (with Shaneson, Julius L.) On four-dimensional s -cobordisms. II. 90i:57011
 Cochran, Tim D. (with Gompf, Robert E.) Applications of Donaldson's theorems to classical knot concordance, homology 3-spheres and property P. 90g:57020
 Gompf, Robert E. see Cochran, Tim D., 90g:57020
 Shaneson, Julius L. see Cappell, Sylvia E., 90i:57011
 Wang, Yan Yang On bordism classes represented by fibrations with fiber $RP(2k)$. (Chinese) 90d:57022

Items with secondary classifications in 57N70

- Khare, S. S. On Dold manifolds. 90i:57021
 Perren, B. Les cycles évanescents sont dénoués. [Vanishing cycles are unknotted] 90i:32014
 Vaisilik, Jussi Quasiconformal concordance. 90d:30068

57N75 General position and transversality

Items with secondary classifications in 57N75

- Bona, J. L. see Santos, Mannel S., 90k:50032
 Madson, I. (with Rothenberg, Melvin) Equivariant pseudo-isotopies and K_{-1} . 90g:57028
 Rothenberg, Melvin see Madson, I., 90g:57028
 Santos, Mannel S. (with Bona, J. L.) On the structure of the equilibrium price set of overlapping-generations economies. 90k:50032

57N80 Stratifications

Items with secondary classifications in 57N80

- Goresky, R. Mark (with MacPherson, Robert) ★ Stratified Morse theory. 90d:57039
 Hector, Gilbert see Saralegi Aranguren, Martin, 90a:58007
 MacPherson, Robert see Goresky, R. Mark, 90d:57039
 Saralegi Aranguren, Martin (with Hector, Gilbert) Formes différentielles d'intersection: un théorème de de Rham pour l'homologie d'intersection des préstratifications abstraites. (English summary) [Differential forms and intersection homology: a de Rham-type theorem for intersection homology on abstract prestratifications] 90a:58007

57N99 None of the above, but in this section

- Viro, O. Ya. Some integral calculus based on Euler characteristic. 90a:57029
 Zarichnyi, M. M. Symmetric products that are finite-dimensional manifolds. (Ukrainian. Russian summary) (Not in MR)

Items with secondary classifications in 57N99

- Brumfiel, G. W. A semi-algebraic Brouwer fixed point theorem for real affine space. 90k:14019
 Grove, Karsten (with Petersen, Peter, V.; Wu, Jyh-Yang) Geometric finiteness theorems via controlled topology. 90k:53075
 Kawachi, Akio An imitation theory of manifolds. 90m:57026
 Makeev, V. V. The Knaster problem on the continuous mappings from a sphere to a Euclidean space. (Russian. English summary) 90e:55006
 — The Knaster problem and almost spherical sections. 90d:55005
 Patkowska, H. On j -homogeneous ANR-spaces. 90i:54046
 Petersen, Peter, V. see Grove, Karsten; et al., 90k:53075
 Radin, Mary Ellen Countable point separating open covers for manifolds. 90j:54032
 Vershik, A. M. Topology of the convex polytopes' manifolds, the manifold of the projective configurations of a given combinatorial type and representations of lattices. 90d:52007
 Wu, Jyh-Yang see Grove, Karsten; et al., 90k:53075

57Pxx Generalized manifolds [see also 18F15]

57P05 Local properties

- Mitchell, W. J. R. Defining the boundary of a homology manifold. 90m:57015

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- Daverman, Robert J. (with Repovš, D.) A new 3-dimensional shrinking criterion. 90c:57013
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57P10 Poincaré duality spaces

- Milgram, R. James Orientations for Poincaré duality spaces and applications. 90k:57024

Items with secondary classifications in 57P10

- Félix, Yves (with Halperin, Stephen; Thomas, Jean-Claude) Hopf algebras of polynomial growth. 90j:16021
 Goresky, R. Mark (with Pardon, William) Wu numbers of singular spaces. 90j:57015

- Halperin, Stephen see Félix, Yves; et al., 90j:16021

- Hillman, J. A. A homotopy fibration theorem in dimension four. 90k:57023
 Kim, In Su Remarks on D^* -groups and spectral sequences. 90k:20008
 — Some properties of D^* -groups. 90j:20116
 Kropholler, P. H. (with Roller, M. A.) Splittings of Poincaré duality groups. II. 90d:20090a
 — (with Roller, M. A.) Splittings of Poincaré duality groups. III. 90d:20090b
 Pardon, William see Goresky, R. Mark, 90j:57015
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 Thomas, Jean-Claude see Félix, Yves; et al., 90j:16021

57P99 None of the above, but in this section

- Dranishnikov, A. N. Cohomology manifolds over finite groups. 90k:57025
 Matsui, Akinori Hirzebruch L -homology classes and the intersection formula. 90i:57012
 Papuc, Dan I. A lemma of differential topology. 90d:57023

Items with secondary classifications in 57P99

- Huber, Roland The Zariski closure of semialgebraic subsets of complex varieties. 90k:14020
 Jakobsche, W. (with Repovš, D.) An exotic factor of $S^3 \times \mathbb{R}$. 90k:57019
 Repovš, D. see Jakobsche, W., 90k:57019

57Qxx PL-topology

57Q05 The general topology of complexes

- Extremiana Aldana, José Ignacio (with Hernández, L. J.; Rivas, M. T.) Proper CW-complexes: a category for the study of proper homotopy. 90m:57016
 Hernández, L. J. see Extremiana Aldana, José Ignacio; et al., 90m:57016
 Jones, David W. A general theory of polyhedral sets and the corresponding T -complexes. 90c:57039
 Lawrence, James F. (with Spingarn, J. E.) An intrinsic characterization of foldings of Euclidean space. 90m:57017
 Rivas, M. T. see Extremiana Aldana, José Ignacio; et al., 90m:57016
 Spingarn, J. E. see Lawrence, James F., 90m:57017

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- Chiaracci, Rossana Colored pseudocomplexes and their fundamental groups. (Italian. English summary) 90e:57002
 Goossens, Pierre Incidence complexes and r -connectedness. 90k:55091
 Grasselli, Luigi Multiple-coloured graphs and pseudocomplexes. (Italian summary) 90j:55066
 Miwa, Takao Linear topological spaces and simplicial complexes with the locally convex topology. 90e:46003
 Narushima, Hiroshi (with Truchiya, Morimasa; Watanabe, Keiichi) The order complexes on the 2-sphere. 90b:06003
 Truchiya, Morimasa see Narushima, Hiroshi; et al., 90b:06003
 Watanabe, Keiichi see Narushima, Hiroshi; et al., 90b:06003

57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [see also 19B28]

- Bauer, Stefan The homotopy type of a 4-manifold with finite fundamental group. 90e:57040
 Inoue, Toshiyoshi The equivariant Whitehead torsions of equivariant homotopy equivalences between the unit spheres of representations of cyclic groups. 90h:57025
 Plakhta, L. P. Preservation of homology and of simple homotopy type by normal functors. (Russian) 90k:57026

Items with secondary classifications in 57Q10

- Craggs, R. Freely reducing group readings for 2-complexes in 4-manifolds. 90k:57018
 Dar, Aparna Intersection Whitehead torsion and the s -cobordism theorem for pseudomanifolds. 90a:57050
 Kobayashi, Teichichi On the J -group of the quaternionic spherical space form S^{4n+3}/H_3 . 90e:55008
 Komatsu, Kazuichi The order of the canonical element in $\tilde{J}(N^n(4))$ and an application. 90e:55008
 Lück, Wolfgang (with Ranicki, Andrew) Chain homotopy projections. 90i:57013
 Ranicki, Andrew see Lück, Wolfgang, 90i:57013
 Turner, V. G. Euler structures, nonsingular vector fields, and Reidemeister-type torsions. 90m:57021
 Varadarajan, K. ★ The finiteness obstruction of C. T. C. Wall. 90e:57041
 (Wall, C. T. C.) see Varadarajan, K., 90e:57041
 Weinberger, Shmuel G -signatures and cyclotomic units. 90g:57029

57Q12 Wall finiteness obstruction for CW-complexes

- Ewing, John H. (with Löffler, Peter; Pedersen, Erik K.) A local approach to the finite obstruction. 90e:57030
 Löffler, Peter see Ewing, John H.; et al., 90e:57030
 Lück, Wolfgang (with Ranicki, Andrew) Chain homotopy projections. 90i:57013
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 Varadarajan, K. ★ The finiteness obstruction of C. T. C. Wall. 90e:57041
 (Wall, C. T. C.) see Varadarajan, K., 90e:57041

57Q15 Triangulating manifolds

Caricchioli, Alberto (with Grasselli, Luigi) Minimal dissections of bordered manifolds. 90d:57024

Gagliardi, Carlo On the genus of the complex projective plane. 90f:57026
Grasselli, Luigi *see* Caricchioli, Alberto, 90d:57024

Items with secondary classifications in 57Q15

Alberty, J. M. Handling noncritical random surfaces. A combinatorial approach to wormhole formation. 90f:57034
Costa, Antonio F. Coloured graphs representing manifolds and universal maps. 90d:57086
Davis, Michael Walter (with Hausmann, Jean-Claude) Aspherical manifolds without smooth or PL structure. 90f:57016
Dobkin, David P. (with Laszlo, Michael J.) Primitives for the manipulation of three-dimensional subdivisions. 90g:68015
Grasselli, Luigi Multiple-coloured graphs and pseudocomplexes. (Italian summary) 90j:57066
Hausmann, Jean-Claude *see* Davis, Michael Walter, 90f:57016
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Lins, Sôstenes Invariant groups on equivalent crystallizations. 90k:57001

57Q20 Cobordism

Goresky, R. Mark (with Pardon, William) Wu numbers of singular spaces. 90j:57015
Pardon, William *see* Goresky, R. Mark, 90j:57015

Items with secondary classifications in 57Q20

Davis, James Frederic (with Milgram, R. James) Semicharacteristics, bordism, and free group actions. 90d:57036
Milgram, R. James *see* Davis, James Frederic, 90d:57036

57Q25 Comparison of PL-structures: classification, Hauptvermutung

Gagliardi, Carlo On a class of 3-dimensional polyhedra. (Italian summary) 90a:57031

Items with secondary classifications in 57Q25

Bauer, Stefan The homotopy type of a 4-manifold with finite fundamental group. 90c:57040

57Q35 Imbeddings and immersions

Guo, Jing Mei PL embeddings of PL manifolds into some Euclidean spaces. 90f:57027
Levitt, Norman ★ Grassmannians and Gauss maps in piecewise-linear topology. 90c:57042

Items with secondary classifications in 57Q35

Bloch, Ethan D. Simplexwise linear and piecewise linear near self-homeomorphisms of surfaces. 90c:57023
Fenn, Roger Fibring the complement of the Fenn-Rolfsen link. 90k:57027
Ferry, Steven C. (with Pedersen, Erik K.; Vogel, Pierre) On complements of codimension-3 embeddings in S^n . 90f:57025
Horvath, Károly ★ An embedding theorem for polyhedra. 90c:57003
Pedersen, Erik K. *see* Ferry, Steven C.; et al., 90f:57025
Vogel, Pierre *see* Ferry, Steven C.; et al., 90f:57025

57Q37 Isotopy

Marmoreto, Yoshihiko Intersections of spheres and disks in manifolds. 90f:57028
Randell, R. Lattice-isotopic arrangements are topologically isomorphic. 90a:57032

57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

Bayer-Flückiger, E. (with Kearton, C.; Wilson, S. M. J.) Finiteness theorems for conjugacy classes and branched covers of knots. 90f:57014
Farber, M. Sh. Minimal Seifert manifolds and the knot finiteness theorem. 90m:57018
Fenn, Roger Fibring the complement of the Fenn-Rolfsen link. 90k:57027
Hillman, J. A. Two-knot groups with torsion free abelian normal subgroups of rank two. 90a:57033
— ★ 2-knots and their groups. 90d:57025
— (with Wilson, S. M. J.) On the reflexivity of Cappell-Shaneson 2-knots. 90k:57028
— The algebraic characterization of the exteriors of certain 2-knots. 90d:57026
— (with Kearton, C.) Stable isometry structures and the factorization of Q -acyclic stable knots. 90h:57026
Kanenoh, Taiso Untwisted deform-spun knots: examples of symmetry-spun 2-knots. 90m:57019
Kearton, C. *see* Hillman, J. A., 90h:57026 and Bayer-Flückiger, E.; et al., 90f:57014
Kirk, Paul A. Link maps in the four sphere. 90c:57043
— Link homotopy with one codimension two component. 90j:57016
Ko, K. H. A Seifert-matrix interpretation of Cappell and Shaneson's approach to link cobordisms. 90j:57017
Kobelskii, V. L. Modules of two-component links of codimension two. (Russian) 90k:57029
Koschorke, Ulrich Multiple point invariants of link maps. 90d:57027
Levine, J. P. Link concordance. 90k:57030
— Metabolic and hyperbolic forms from knot theory. 90h:57027
Morita, Toshiyuki Orders of knots in the algebraic knot cobordism group. 90d:57028
Neumann, Walter D. (with Rudolph, Lee) The enhanced Milnor number in higher dimensions. 90f:57029

Nehzinskii, V. M. Groups of classes of pseudohomotopic singular links. I. (Russian) 90d:57029

Nicolau, Monica A classification of invariant knots. 90k:57031
Pizer, Adrian Matrices which are knot module matrices. 90c:57044
Roseman, Dennis Spinning knots about submanifolds; spinning knots about projections of knots. 90c:57045
Rudolph, Lee *see* Neumann, Walter D., 90f:57029
Silver, Daniel S. Construction by isotopy. II. 90g:57021
Smolinsky, Lawrence Invariants of link cobordism. 90h:57028
— Casson-Gordon invariants of some 3-fold branched covers of knots. 90k:57032
Teragata, Masakazu Fibered 2-knots and lens spaces. 90d:57030
— Addendum to: "Fibered 2-knots and lens spaces" [Osaka J. Math. 26 (1989), no. 1, 57-63; MR 90d:57030]. 90k:57033
Wilson, S. M. J. *see* Bayer-Flückiger, E.; et al., 90f:57014 and Hillman, J. A., 90h:57028
Yasuda, Tomoyuki A presentation and the genus for ribbon n -knots. 90k:57034

Items with secondary classifications in 57Q45

le Dimet, Jean-Yves Cobordisme d'enlacements de disques. (English summary) [Cobordism of linked discs] 90c:57046
Finashin, S. M. (with Kreck, M.; Viro, O. Ya.) Nondiffeomorphic but homeomorphic knotings of surfaces in the 4-sphere. 90h:57021
Guo, Jing Mei On the topological types of quasi-ordinary surface germs. 90c:14040
Hillman, J. A. A homotopy fibration theorem in dimension four. 90k:57023
Koschorke, Ulrich (with Rolfsen, Dale) Higher-dimensional link operations and stable homotopy. 90h:57034
Kreck, M. *see* Finashin, S. M.; et al., 90h:57021
Némethi, A. The link of the sum of two holomorphic functions. 90h:32021
Rolfsen, Dale *see* Koschorke, Ulrich, 90h:57034
Sucha, Alexander I. Iterated spinning and homology spheres. 90m:57014
Viro, O. Ya. *see* Finashin, S. M.; et al., 90h:57021

57Q50 Microbundles and block bundles [see also 55R60, 57N55]

Items with secondary classifications in 57Q50

Guo, Jing Mei PL embeddings of PL manifolds into some Euclidean spaces. 90f:57027

57Q60 Cobordism and concordance

Chapman, T. A. Destabilization of piecewise linear concordances. 90h:57029
le Dimet, Jean-Yves Cobordisme d'enlacements de disques. (English summary) [Cobordism of linked discs] 90c:57046

Items with secondary classifications in 57Q60

Ayala, R. (with Domínguez Murillo, Eladio; Quintero, A.) Approximation axiomatique à la théorie du bordisme. (English summary) [An axiomatic approach to bordism theory] 90j:55010
Domínguez Murillo, Eladio *see* Ayala, R.; et al., 90j:55010
Nehzinskii, V. M. Groups of classes of pseudohomotopic singular links. I. (Russian) 90d:57029
Quintero, A. *see* Ayala, R.; et al., 90j:55010
Shibuya, Tetsuo On the homotopy of links. 90d:57011
— Some metric functions of links. 90f:57009
Smolinsky, Lawrence Casson-Gordon invariants of some 3-fold branched covers of knots. 90k:57032

57Q91 Equivariant PL-topology

Items with secondary classifications in 57Q91

Jaco, William (with Rubinstein, J. Hyam) PL equivariant surgery and invariant decompositions of 3-manifolds. 90g:57016
Rubinstein, J. Hyam *see* Jaco, William, 90g:57016

57Q99 None of the above, but in this section

Cammaroto, F. (with Carini, L.) On regular homotopy of a finite simplicial complex. (Italian summary) 90f:57030
Carini, L. *see* Cammaroto, F., 90f:57030
Esposito, Rosa (with Parlato, Lucio) Mappings with homogeneously collapsible duals. (Italian. English summary) 90a:57034a
— (with Magro, Gaetano) The simplicial cylinder of mappings with homogeneously collapsible duals. (Italian. English summary) 90a:57034b
Magro, Gaetano *see* Esposito, Rosa, 90a:57034b
Parlato, Lucio *see* Esposito, Rosa, 90a:57034a
Rivara, Maria-Cecilia Selective refinement/refinement algorithms for sequences of nested triangulations. 90f:57018
Sakai, Katsuro (with Wong, Raymond Y.) On the space of Lipschitz homeomorphisms of a compact polyhedron. 90m:57020
Wong, Raymond Y. *see* Sakai, Katsuro, 90m:57020

Items with secondary classifications in 57Q99

Björner, Anders (with Kalai, Gil) On f -vectors and homology. 90i:52008
Greenberg, Peter Homology of some groups of pl-homeomorphisms of the line. 90i:20054
Hacon, Derek (with Tomei, C.) Tetrahedral decompositions of hexahedral meshes. 90i:51022
Helmke, U. (with Hinrichsen, D.; Manthey, W.) A cell decomposition of the space of real Hankel matrices of rank $\leq n$ and some applications. 90m:93039
Hinrichsen, D. *see* Helmke, U.; et al., 90m:93039
Kalai, Gil *see* Björner, Anders, 90i:52008

- Lawrence, James F. (with Spingarn, J. E.) An intrinsic characterization of foldings of Euclidean space. 90m:57017
 Manthey, W. see Helmke, U.; et al., 90m:53039
 Plakhta, L. P. see Zarichnyi, M. M., 90m:54005
 Spingarn, J. E. see Lawrence, James F., 90m:57017
 Tomel, C. see Haco, Derek, 90i:51022
 Viro, O. Ya. Some integral calculus based on Euler characteristic. 90a:57029
 Zarichnyi, M. M. (with Plakhta, L. P.) Lifting normal functors of finite degree to the PL category. (Russian. English summary) 90g:54005

57Rxx Differential topology (For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.)

57R05 Triangulating

- Acquistapace, Francesca Essential coverings for differentiable manifolds. (Italian) 90a:57035

Items with secondary classifications in 57R05

- Brogia, Fabrizio Simple coverings for stratified spaces. (Italian) 90k:58005
 Knebusch, Manfred ★ Weakly semialgebraic spaces. 90j:14027
 Lalonde, François Homologie de Shih d'une submersion (homologies non singulières des variétés feuilletées). [Shih homology of a submersion (nonsingular homologies of foliated manifolds)] 90a:55011
 Papac, Dan I. A lemma of differential topology. 90d:57023

57R10 Smoothing

Items with secondary classifications in 57R10

- Davis, Michael Walter (with Hausmann, Jean-Claude) Aspherical manifolds without smooth or PL structure. 90f:57016
 Donaldson, S. (with Friedman, Robert David) Connected sums of self-dual manifolds and deformations of singular spaces. 90c:32027
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- Angles, Pierre Real conformal spin structures on manifolds. 90d:57031
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- Turaev, V. G. Classification of oriented Montesinos links via spin structures. 90d:57013
 — Euler structures, nonsingular vector fields, and Reidemeister-type torsions. 90m:57021
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- Arapura, Donu A short proof of Rohlin's theorem for complex surfaces. 90g:57022
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 — Some Borsuk-Ulam-type theorems for maps from Riemannian manifolds into manifolds. 90e:57050
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 Birmingham, Danny (with Rakowski, Mark; Thompson, George) BRST quantization of topological field theories. 90d:81086
 Blazik, N. The volumes of small geodesic balls and generalized Chern numbers of Kaehler manifolds. 90j:53086
 — On almost Einstein holomorphic vector bundles over Hermitian surfaces. 90m:53061
 Cerasoli, Mauro (with Letta, Giorgio) On the Euler-Poincaré characteristic. (Italian. French summary) 90e:52001
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- Kirby, Robson C. ★ The topology of 4-manifolds. 90j:57012
- Kouckor, Ulrich The singularity method and immersions of m -manifolds into manifolds of dimensions $2m-2$, $2m-3$ and $2m-4$. 90b:57039
- Labastida, J. M. F. (with Ramallo, A. V.) Operator formalism for Chern-Simons theories. 90j:81115
- Lafferty, John D. (with Yu, Yan Lin; Zhang, Wei Ping¹) Clifford asymptotics and the local Lefschetz index. 90b:58211
- Lalonde, François Classes caractéristiques isotropes. [Isotropic characteristic classes] 90b:58069
- Lehmman, Daniel Théorème de Gauss-Bonnet pour les variétés stratifiées. (English summary) [The Gauss-Bonnet theorem for stratified manifolds] 90b:58010
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- Levitt, Norman ★ Grassmannians and Gauss maps in piecewise-linear topology. 90c:57042
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- Michor, Peter W. Gauge theory for diffeomorphism groups. 90b:58022
- (Mirchevski, B.) *see* Shashkin, Yu. A., 90j:51002
- Milila, Guido On the characteristic ring of flat bundles defined over a number field. 90b:58032
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- Morita, Shigeyuki On the structure and the homology of the Torelli group. 90b:57015
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- Ng, Tze Beng Vector bundles over $(8k+5)$ -dimensional manifolds. 90b:57016
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- Rakowski, Mark *see* Birmingham, Danny; et al., 90d:81086
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- Rosenberg, Jonathan Applications of analysis on Lipschitz manifolds. 90c:57034
- (with Weinberger, Shmuel) Higher G -indices and applications. 90b:58170
- Roy, Ashim (with Bandyopadhyay, Pratul) Topological aspects of a fermion and the chiral anomaly. 90b:81132
- Ryder, L. H. A common geometrical context for the instanton, the two-dimensional $O(4)$ sigma model and the skyrmion. 90b:81145
- Shashkin, Yu. A. ★ The Euler characteristic. 90g:52005
- ★ Característica euleriana. (Spanish) [The Euler characteristic] 90j:51002
- Shi, He On Chern characters of algebraic hypersurface with arbitrary singularities. 90b:14016
- (Shokurov, Vladimir) *see* Shashkin, Yu. A., 90g:52005
- Sinha, R. R. The monodromy representations of projective structures. 90g:32010
- Thompson, George *see* Birmingham, Danny; et al., 90d:81086
- Trofimov, V. V. Symplectic connections, the Maslov index and a conjecture of Fomenko. 90b:58075
- Tuygan, B. L. *see* Feigin, B. L., 90b:17041
- Valsamou, Izu Classes caractéristiques secondaires en géométrie symplectique. [Secondary characteristic classes in symplectic geometry] 90c:58066
- Ville, Marina Les variétés Riemanniennes de dimension 4 $\frac{1}{2}$ -pinçées. (English summary) [$\frac{1}{2}$ -pinched four-dimensional Riemannian manifolds] 90b:53082
- Weinberger, Shmuel Homotopy invariance of η -invariants. 90a:58168
- *see also* Rosenberg, Jonathan, 90b:58170
- Wu, Yue Liang (with Xie, Yan Bo; Zhou, Guang Zhao) The general Chern-Simons characteristic classes and their physical applications. 90b:58253
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- Ba, Boubakar (with Diallo, Mamadou Hassimou) Caractérisation des fibrés vectoriels de classe C^r . (English summary) [Characterization of C^r -vector bundles] 90d:57032
- Bödigheimer, C.-F. (with Cohen, Frederick R.; Taylor, Laurence R.) On the homology of configuration spaces. 90b:57031
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- Kawazumi, Nariya Folding surface bundles of genus 2. 90b:57031
- Tang, Zi Zhou Canonical real line bundles on projective Stiefel manifolds. (Chinese) (Not in MR)
- Taylor, Laurence R. *see* Bödigheimer, C.-F.; et al., 90b:57031

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- Baulieu, Laurent (with Grossman, Bernard) Monopoles and topological field theory. 90c:57038
- Berishvili, G. D. Symplectic structure on a Grassmann bundle. 90b:58054
- Fredricks, Gregory A. (with Gilkey, Peter B.; Parker, Phillip E.) A higher order invariant of differential manifolds. 90b:55025
- Gilkey, Peter B. *see* Fredricks, Gregory A.; et al., 90b:55025
- Groisser, D. (with Parker, Thomas H.) The geometry of the Yang-Mills moduli space for definite manifolds. 90b:58021
- Grossman, Bernard *see* Baulieu, Laurent, 90c:57038
- Hattori, Akio Corrections to: "Topology of the moduli space of $SU(2)$ -instantons with instanton number 2" [J. Fac. Sci. Univ. Tokyo Sect. IA Math. 34 (1987), no. 3, 741-761; MR 89m:53134]. 90b:53094
- Kacharz, W. Symplectic complex bundles over real algebraic four-folds. 90b:14021
- Papaghiu, N. On the differential geometry of the injective vector bundle morphisms. 90j:53092
- Parker, Phillip E. *see* Fredricks, Gregory A.; et al., 90b:55025
- Parker, Thomas H. *see* Groisser, D., 90b:58021
- Taubes, Clifford Henry S^1 actions and elliptic genera. 90b:58167

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- Zeros of pullback vector fields and fixed point theory for bodies. 90j:57019
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- Yue, Xie Ying The behavior of vector fields $(P_3(x, y), Q_3(x, y))$ on the equator of RP^3 . (Chinese. English summary) 90c:57018

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- Baulieu, Laurent (with Singer, I. M.) Topological Yang-Mills symmetry. 90b:58004
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- Fried, David Cyclic resultants of reciprocal polynomials. 90b:57004
- Ghannat, Patrick First eigenvalue of the Laplacean and torsion of parallelizable Riemannian manifolds. 90b:58266
- Greenberg, Peter (with Porter, Michael) A generalization of geodesic flow. 90c:58141
- Ikegami, Gikō On regularizations of nonlinear electrical circuits. 90b:94059
- Porter, Michael *see* Greenberg, Peter, 90c:58141
- Radziszewski, Z. The frame field along a curve in the space $P(p, q)$ of p -dimensional planes in the $(p+q)$ -dimensional Euclidean space. (Russian and Polish summaries) 90c:53066
- Rudolph, Lee Mutually braided open books and new invariants of fibered links. 90d:57010
- Singer, I. M. *see* Baulieu, Laurent, 90b:58004
- Soltanov, A. Ya. Lifts of tensor fields from a manifold to the frame bundle. (Russian) 90b:53061
- Udrishte, C. Conformal vector fields on Riemannian manifolds with semidefinite negative Ricci tensor. (Romanian) 90b:53050
- Wallace C., Myrna Characterization of analytic vector fields in R^3 that are tangent to the Whitney umbrella. (Spanish. English summary) 90d:58020

57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [see also 49E15, 49F15]

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- Emel'yanov, S. V. (with Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Global controllability and stabilization of nonlinear systems. (Russian) 90b:93009
- Korovin, S. K. *see* Emel'yanov, S. V.; et al., 90b:93009
- Nikitin, Sergei Vyacheslavovich *see* Emel'yanov, S. V.; et al., 90b:93009

57R30 Foliations; geometric theory

- Andrzejczak, Grzegorz Characteristic homomorphism for transversely holomorphic foliations via the Cauchy-Riemann equations. 90c:57019
- Aroca Hernández-Ros, José M. Results of F. Cano on Thom's conjecture. (Spanish. English summary) 90c:57020
- Blyakhman, N. M. (with Zhukova, N. I.) Foliations that are compatible with second-order differential equations. (Russian) 90b:57033
- Canwell, John (with Conlon, Lawrence) Smoothability of proper foliations. 90b:57034
- (with Conlon, Lawrence) Foliations and subshifts. 90c:57021
- (with Conlon, Lawrence) Leafwise hyperbolicity of proper foliations. 90b:57035
- Conlon, Lawrence *see* Canwell, John, 90b:57021; 90b:57034 and 90b:57035
- Gallego, E. (with Gualandri, L.; Hector, Gilbert; Reventós, A.) Groupoides riemannians. (English summary) [Riemannian groupoids] 90b:57022
- Ghys, Étienne *see* Hector, Gilbert; et al., 90b:57024
- Grimaldi, Renata Nonexistence of cusps in the asymptotic geometry of leaves. (Italian. French summary) 90c:57022
- Gualandri, L. *see* Gallego, E.; et al., 90b:57022
- Hantout, Youssef Classes caractéristiques rigides de feuilletages. (English summary) [Rigid characteristic classes of foliations] 90d:57033
- Hector, Gilbert (with Ghys, Étienne; Moriyama, Yoichi) On codimension one nilfoliations and a theorem of Malcev. 90b:57024
- *see also* Gallego, E.; et al., 90b:57022
- Holubowicz, Ryszard (with Mozgawa, Witold) Nonisometric transversely parallelisable foliations on four-dimensional toral bundles. (Polish summary) 90b:57053
- Inaba, Takashi (with Matsumoto, Shigenori) Some qualitative aspects of transversely projective foliations. 90b:57025

- Li, Zi Sheng Real projective algebraic manifolds with a foliation. (Chinese. English summary) (Not in MR)
- Matsumoto, Shigenori *see* Inaba, Takashi, 90c:57025
- McCarthy, John David (with Papadopoulos, Athanase) Dynamics on Thurston's sphere of projective measured foliations. 90c:57054
- Milnani, Tadayoshi A formula for characteristic classes of foliated \mathbb{R}^n -products. 90c:57017
- Moriyama, Yoichi *see* Hector, Gilbert; et al., 90c:57024
- Mozgawa, Witold *see* Holobowicz, Ryszard, 90c:57053
- Narmanov, A. Ya. The holonomy group of codimension one foliations. (Russian) 90m:57023
- Pak, Hong Kyung (with Pak, Jin Suk) Stability theorem for a holomorphic Riemannian foliation. 90j:57020
- Pak, Jin Suk *see* Pak, Hong Kyung, 90j:57020
- Papadopoulos, Athanase *see* McCarthy, John David, 90c:57054
- Perreira da Silva, José Antônio Feuilletages contravariants à feuilles orientables. (English summary) [Contravariant foliations with orientable leaves] 90j:57021
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- Sergiescu, Vlad Sur la suite spectrale d'un feuilletage riemannien. (English summary) [On the spectral sequence of a Riemannian foliation] 90c:57055
- Thom, René Sur les bouts d'une feuille d'un feuilletage au voisinage d'un point singulier isolé. (English summary) [On the ends of a leaf of a foliation in the neighborhood of an isolated singular point] 90a:57043
- Wolak, Robert Transverse completeness of foliated systems of ordinary differential equations. 90c:57024
- Zinkova, N. I. Foliations that are compatible with systems of paths. (Russian) 90m:57025 — *see also* Blyakhman, N. M., 90c:57033
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- Alvarez López, Jesús A. Duality in the spectral sequence of Riemannian foliations. 90i:58004
- Andrzejczak, Grzegorz On some sheaf cohomology of semi-simplicial manifolds and their realizations. 90c:55013
- Barbosa, J. L. M. (with Gomes, Jonas de Miranda; Da Silva, Alexandre M.) Foliation of 3-dimensional space forms by surfaces with constant mean curvature. 90j:53054
- Bigonnet, Bruno Construction d'une C^* -algèbre associée à certains feuilletages de Stefan. (English summary) [A C^* -algebra associated to some foliations with singularities] 90a:46173
- Blumenthal, Robert A. (with Hebda, James J.) A sufficient condition for the leaves of a totally umbilic foliation to be conformally complete. 90b:53039
- Bos, Michiel (with Nair, V. P.) U(1) Chern-Simons theory and $c = 1$ conformal blocks. 90i:81066
- Camacho, César (with Lins Neto, A.; Sad, P.) Minimal sets of foliations on complex projective spaces. 90c:58129
- Cano, Felipe Réduction des singularités des feuilletages holomorphes. (English summary) [Reduction of the singularities of holomorphic foliations] 90g:32015
- Carrière, Yves Variations sur les flots riemanniens. [Variations on Riemannian flows] (see 90m:58221)
- Cerveau, Dominique Feuilletages réglés. (English summary) [Ruled foliations] 90c:32038
- Cordero, Luis A. (with Wolak, Robert) Examples of foliations with foliated geometric structures. 90m:53046
- Currás-Bosch, Carlos Killing fields preserving minimal foliations. 90i:53039
- Da Silva, Alexandre M. *see* Barbosa, J. L. M.; et al., 90j:53054
- Douglas, R. G. Another look at real-valued index theory. 90c:58146
- Duchamp, T. (with Kalka, M.) The equivalence problem for complex foliations of complex surfaces. 90c:32032
- Fack, Thierry (with Wang, Xiaolu) The C^* -algebras of Reeb foliations are not AF-embeddable. 90i:46117
- Farrell, F. T. (with Jones, Lowell Edwin) Foliated control theory. I, II. 90c:57037
- Fathi, Albert Some compact invariant sets for hyperbolic linear automorphisms of torii [tori]. 90j:58116
- Feigin, B. L. (with Fuks, D. B.) Cohomology of Lie groups and Lie algebras. (Russian) 90k:22014
- Fuks, D. B. *see* Feigin, B. L., 90k:22014
- Gabal, David (with Oertel, Ulrich) Essential laminations in 3-manifolds. 90h:57012
- Surgery on knots in solid tori. 90h:57005
- Ghys, Étienne (with Sergiescu, Vlad) Sur un groupe remarquable de difféomorphismes du cercle. [On a remarkable group of diffeomorphisms of the circle] 90c:57035
- Ginzburg, V. L. Closed characteristics of 2-forms. 90f:58059
- Gomes, Jonas de Miranda *see* Barbosa, J. L. M.; et al., 90j:53054
- Gómez-Mont, Xavier (with Sundaraman, Duraiswami) Remarks on the versal families of deformations of holomorphic and transversely holomorphic foliations. 90c:52066
- Grimaldi, Renata (with Passante, Giancarlo) The asymptotic geometry of the "exceptional" leaves of Anosov foliations. (Italian. French summary) 90c:58216
- Hamasaki, Atsumi Cohomologies of Lie algebras of formal vector fields preserving a foliation. 90h:17023
- Hebda, James J. *see* Blumenthal, Robert A., 90b:53039
- Hilsum, Michel (with Skandalis, Georges) Morphismes K -orientés d'espaces de feuilles et fonctorialité en théorie de Kasparov (d'après une conjecture d'A. Connes). (English summary) [K -oriented morphisms of spaces of leaves and functoriality in Kasparov theory (after a conjecture of A. Connes)] 90a:58169
- Ikegami, Gikō Singular perturbations in foliations. 90g:58113
- Jones, Lowell Edwin *see* Farrell, F. T., 90c:57037
- Kalka, M. *see* Duchamp, T., 90c:32032
- Kamber, Franz W. (with Tondeur, Philippe) Foliations and harmonic forms. 90b:58005
- Kanno, Hiroaki Weil algebra structure and geometrical meaning of BRST transformation in topological quantum field theory. 90j:81112
- Kozul, Jean-Louis Les superalgèbres de Lie $W(n)$ et leurs représentations. [The Lie superalgebras $W(n)$ and their representations] 90d:17006
- Lê Anh Vũ The foliation formed from the K -orbits of the real diamond group. (Vietnamese. English summary) 90a:46181
- Lins Neto, A. *see* Camacho, César; et al., 90c:58129
- Maniscalco, L. (with Portolano, A.) The space of closed simple curves and measured foliations on noncompact orientable surfaces. (Italian. English summary) 90c:57038
- Marty, Paul Feuilletages lagrangiens et métriques quasi cotangentes complètes. (English summary) [Lagrangian foliations and complete quasicotangent metrics] 90f:58066
- Matuszayk, Hanna On foliations of differential spaces. 90c:58005
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- Bendersky, Martin (with Davis, Donald M.) On the complex bordism of classifying spaces. 90j:55011
- *see also* Bahri, Anthony; et al., 90b:57022
- Davis, Donald M. *see* Bendersky, Martin, 90j:55011
- Davis, James Frederic (with Milgram, R. James) Semicharacteristics, bordism, and free group actions. 90b:57036
- Gilkey, Peter B. *see* Bahri, Anthony; et al., 90b:57022
- Kawakubo, Katsuo G - s -cobordism theorems do not hold in general for many compact Lie groups G . 90b:57046
- Knaap, K. Stably spherical classes in the K -homology of a finite group. 90a:55012
- Milgram, R. James *see* Davis, James Frederic, 90b:57036

57R90 Other types of cobordism [See 55N22]

- Aguilar, M. A. Generators for the bordism algebra of immersions. 90b:57008
- Golubystnikov, V. P. Bordism rings with split normal bundles. II. 90b:57042
- Ruberman, Daniel Rational homology cobordisms of rational space forms. 90a:57051

Items with secondary classifications in 57R90

- Ayala, R. (with Domínguez Murillo, Eladio; Quintero, A.) Approximation axiomatique à la théorie du bordisme. (English summary) [An axiomatic approach to bordism theory] 90j:55010
- Domínguez Murillo, Eladio *see* Ayala, R.; et al., 90j:55010
- Kamata, Masayoshi On the characteristic numbers of unitary semi-free S^1 -manifolds. 90b:57026
- Koschorke, Ulrich The singularity method and immersions of m -manifolds into manifolds of dimensions $2m-2$, $2m-3$ and $2m-4$. 90b:57039
- Quintero, A. *see* Ayala, R.; et al., 90j:55010
- Sales, A. Multiple points of singular maps. II. 90b:57027

57R91 Equivariant algebraic topology of manifolds

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- Blumet, Jean-Michel Filtering equation, equivariant cohomology and the Chern character. 90b:58172
- Costinescu, Cristian Nicolae K -théorie complexe de certains $U(n)$ -espaces. [Complex K -theory of certain $U(n)$ -spaces] 90b:55007
- Lück, Wolfgang (with Ranicki, Andrew) Surgery transfer. 90b:57041
- Mayer, Karl Heinz G -invariant Morse-Funktionen. (English summary) [G -invariant Morse functions] 90a:57049
- Nakai, Isao On the topological structure of smooth equivariant mappings. I. The local linearization theorem for smooth involutive and relative mappings. 90b:58022
- On the topological structure of smooth equivariant mappings. II. Topological instability and nonstabilization theorems. 90b:58023
- Ranicki, Andrew *see* Lück, Wolfgang, 90b:57041

57R95 Realizing cycles by submanifolds

- Morgan, Frank Least-volume representatives of homology classes in $G(2, C^4)$. 90b:57030
- Tognoli, A. Analyticity of homology classes. 90d:57040

Items with secondary classifications in 57R95

- Jaco, William (with Rubinstein, J. Hyam) PL equivariant surgery and invariant decompositions of 3-manifolds. 90b:57016
- Lawson, Terry Compactness results for orbifold instantons. 90a:57052
- Rubinstein, J. Hyam *see* Jaco, William, 90b:57016
- Saeki, Osamu Simply connected 4-manifolds of second Betti number 1 bounded by homology lens spaces. 90b:57010

57R99 None of the above, but in this section

- Cornă, Octav Some separation properties of hypersurfaces. (Romanian. English summary) 90d:57041

- Friedman, Robert David (with Morgan, John W.) Complex versus differentiable classification of algebraic surfaces. 90b:57039
- Goldman, William M. Geometric structures on manifolds and varieties of representations. 90b:57024
- Lawson, Terry Compactness results for orbifold instantons. 90a:57052
- Li, Gui Song J -homomorphisms and a generalization of Rokhlin's theorem. (Chinese) (Not in MR)
- Morgan, John W. *see* Friedman, Robert David, 90b:57039
- Wang, Bo Ying Some criteria for nondecomposable elements in Grassmann spaces. (Chinese. English summary) (Not in MR)
- Xu, Sen Lin Orientability of simply connected manifolds. (Chinese) 90b:57009

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- Anné, Colette (with Besson, Gérard) Sur le théorème de l'indice d'après Ezra Getzler. [On the index theorem, following Ezra Getzler] 90b:58199
- Besson, Gérard *see* Anné, Colette, 90b:58199
- Brooks, Roger (with Montano, David; Sonnenschein, Jacob) Gauge fixing and renormalization in topological quantum field theory. 90b:81069
- Topological invariants and a gauge theory of the super-Poincaré algebra in three dimensions. 90b:81055
- Danielsson, U. Properties of the three-dimensional Chern-Simons partition function. 90d:81110
- Dolbilla, N. P. (with Sedrakyan, A. G.; Shtan'ko, M. A.; Shtogrin, M. I.) Topology of a family of parametrizations of two-dimensional cycles arising in the three-dimensional Ising model. 90b:82097
- Ekeland, Ivar (with Hofer, H.) Symplectic topology and Hamiltonian dynamics. 90a:58046
- Finashin, S. M. Configurations of seven points in RP^3 . 90b:14035
- Fried, David Counting circles. 90b:58157
- Fujiki, Akira On the de Rham cohomology group of a compact Kähler symplectic manifold. 90d:53083
- Gottlieb, Daniel Henry Splitting off tori and the evaluation subgroup of the fundamental group. 90j:55019
- Gramain, André Formes quadratiques associées aux plongements et immersions des surfaces dans l'espace. [Quadratic forms associated with embeddings and immersions of surfaces in space] 90b:57005
- Hofer, H. *see* Ekeland, Ivar, 90a:58046
- Horne, James H. Superspace versions of topological theories. 90b:81058
- Hsiang, Wu-Yi (with Kleiner, Bruce) On the topology of positively curved 4-manifolds with symmetry. 90b:53053
- Kleiner, Bruce *see* Hsiang, Wu-Yi, 90b:53053
- Kulkarni, Ravi S. Conformal structures and Möbius structures. 90b:53026
- Labastida, J. M. F. (with Ramallo, A. V.) Chern-Simons theory and conformal blocks. 90j:81216
- Löffler, Peter *see* Milgram, R. James, 90b:55033
- López de Medrano, Santiago Topology of the intersection of quadrics in R^n . 90b:58015
- Milgram, R. James (with Löffler, Peter) The structure of deleted symmetric products. 90b:55033
- Montano, David *see* Brooks, Roger; et al., 90b:81069
- Morrison, Kent Discrete Yang-Mills connections. 90b:81128
- Nam, Soonkeon *see* Tze, Chia Hsiung, 90a:81102
- Ouadghiri, A. Un modèle de Sullivan en homotopie modérée. [A Sullivan model in tame homotopy] 90b:55006
- Petrie, Ted Smooth conjugacy of algebraic actions on affine varieties. 90j:14064
- Ramallo, A. V. *see* Labastida, J. M. F., 90j:81216
- Rodrigues Costa, Suell I. On closed twisted curves. 90b:53089
- Rohm, R. Exotic spheres as topological defects in string theory. (*see* 90b:81007)
- Scheerer, Hans Report on tame homotopy theory via differential forms. 90b:55007
- Seaman, Walter A pinching theorem for four manifolds. 90b:53043
- Sedrakyan, A. G. *see* Dolbilla, N. P.; et al., 90b:82097
- Serfaty, Sinau C^* -actions on Grassmann bundles and the cycle at infinity. 90b:32035
- Shtan'ko, M. A. *see* Dolbilla, N. P.; et al., 90b:82097
- Shtogrin, M. I. *see* Dolbilla, N. P.; et al., 90b:82097
- Sonnenschein, Jacob *see* Brooks, Roger; et al., 90b:81069
- Tze, Chia Hsiung (with Nam, Soonkeon) Global dynamics of electric and magnetic membranes on the complex, quaternionic and octonionic Hopf bundles. 90a:81102
- Vasil'ev, V. A. Topology of spaces of functions without complex singularities. 90b:58027
- Wada, Masaaki Closed orbits of nonsingular Morse-Smale flows on S^3 . 90b:58059
- Wegner, Bernd Über das kritische Verhalten zylindrischer Abstandsfunktionen auf Untermannigfaltigkeiten euklidischer Räume. (English summary) [On the critical behavior of cylindrical distance functions on submanifolds of Euclidean spaces] 90b:53075
- Weibel, Charles A. A Brown-Gersten spectral sequence for the K -theory of varieties with isolated singularities. 90j:14012
- Witten, Edward Topological sigma models. 90b:81080
- Yamron, J. Topological actions from twisted supersymmetric theories. 90b:81081

57Sxx Topological transformation groups
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- (Kawakubo, Katsuo) *see* Transformation groups, 90a:57002

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- Osaka ★ Transformation groups. 90a:57002
- Transformation groups ★ Transformation groups. 90a:57002

57S05 Topological properties of groups of homeomorphisms

- Karube, Takashi The group of isometries of a metric manifold. 90c:57064
 Kraussnaks, R. The rational type of some groups of homeomorphisms. 90c:57031

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- Fadell, E. Ideal-valued generalizations of Lusternik-Schnirelmann category, with applications. 90f:55003
 Farrell, F. T. (with Jones, Lowell Edwin) A topological analogue of Mostow's rigidity theorem. 90h:57023a
 — (with Jones, Lowell Edwin) Compact negatively curved manifolds (of dim $\neq 3, 4$) are topologically rigid. 90h:57023b
 — (with Jones, Lowell Edwin) Rigidity and other topological aspects of compact nonpositively curved manifolds. 90h:57023c
 Jones, Lowell Edwin see Farrell, F. T., 90h:57023a; 90h:57023b and 90h:57023c
 Linden, Martin (with Reckziegel, Helmut) On the differentiability of maps into Lie transformation groups. 90h:58010
 Odani, Kenzi Generic homeomorphisms have the pseudo-orbit tracing property. 90m:58111
 Reckziegel, Helmut see Linden, Martin, 90h:58010
 Sakai, Katsuro (with Wong, Raymond Y.) Conjugating homeomorphisms to uniform homeomorphisms. 90a:58019
 Tukia, Pekka Homeomorphic conjugates of Fuchsian groups: an outline. 90h:22011
 Wong, Raymond Y. see Sakai, Katsuro, 90a:58019

57S10 Compact groups of homeomorphisms

- Dranishnikov, A. N. Free actions of 0-dimensional compact groups. 90c:57065
 Notbohm, Dietrich The fixed-point conjecture for p -toral groups. 90a:57053
 Ulrich, Hanno * Fixed point theory of parametrized equivariant maps. 90h:57045

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- Arnol'd, V. I. On some problems in symplectic topology. 90d:58036
 Balanor, Z. Fundamental domains and some problems of equivariant topology. (Russian. English summary) 90k:54053
 Dranishnikov, A. N. Cohomology manifolds over finite groups. 90h:57025
 Kang, Eun Sook (with Sakong, Jungsook) Compact group actions on admissible manifolds. 90h:57051
 Plesken, W. Minimal dimensions for flat manifolds with prescribed holonomy. 90i:57015
 Rosenfeld, B. A. (with Zamakhovskii, M. P.; Timoshenko, T. A.) Parabolic spaces. (Russian) 90c:22050
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 Watabe, Tsuyoshi Maximal toral action on aspherical manifolds $\Gamma \backslash G/K$ and G/H . 90c:57056
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57S15 Compact Lie groups of differentiable transformations

- Hattori, Akio Circle actions on symplectic manifolds. 90j:57029
 Hsiang, Wu Chung A personal perspective of differentiable transformation groups. 90i:57025
 Hussein, S. Y. G^m -fiber homotopy equivalence. 90k:57043
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 Mukiyama, Kazuo Almost effective $S^3 \times S^3$ -actions on simply connected n -manifolds for $n \leq 6$. 90m:57031
 — Actions of compact connected Lie groups on simply connected rational cohomology 5-spheres. 90h:57010
 Puppe, V. Simply connected manifolds without S^1 -symmetry. 90a:57054
 Yamakawa, Aiko Fixed-point free $SU(n)$ -actions. 90h:57047

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- Bauer, Stefan On the Segal conjecture for compact Lie groups. 90j:55023
 Beckmann, Brigitte On the spectrum of Riemannian G -manifolds. 90i:58225
 Heisey, R. E. (with West, James) Orbit spaces of the hyperspace of a graph which are Hilbert cubes. 90a:57024
 Kamishima, Yoshinobu Conformal circle actions on 3-manifolds. 90f:55025
 Ku, Hsiung Tung (with Ku, Mei Chin) The Pontryagin numbers of an orbit map and generalized G -signature theorem. 90g:57023
 Ku, Mei Chin see Ku, Hsiung Tung, 90g:57023
 Landweber, Peter S. (with Stong, Robert E.) Circle actions on Spin manifolds and characteristic numbers. 90a:57040
 Lewkowicz, Marek Positive scalar curvature and local actions of nonabelian Lie groups. 90h:53077
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 Ôike, Hiroshi Twisted linear actions on projective spaces. 90j:57037
 Onishchik, A. L. On the centre of a transitive semisimple Lie group. 90c:22010
 Reichard, K. (with Spallek, K.) Product singularities and quotients. 90d:32046
 Rosenberg, Jonathan (with Weinberger, Shmuel) Higher G -indices and applications. 90f:58170
 Schwarz, Gerald W. The topology of algebraic quotients. 90m:14043
 Spallek, K. see Reichard, K., 90d:32046
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- Uchida, Fuchi Certain aspects of twisted linear actions. 90d:57044
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- Adem, Alejandro Cohomological restrictions on finite group actions. 90d:57042
 — Homology representations of finite transformation groups. 90j:57031
 Asadi, Amir H. Varieties in finite transformation groups. 90c:57066
 — On finite domination and simple homotopy type of nonsimply-connected G -spaces. 90h:57045
 Bauer, Stefan A linearity theorem for group actions on spheres with applications to homotopy representations. 90c:57067
 Borszyc, Cezary Differential methods in equivariant and nonequivariant topology. 90c:57068
 Browder, William Actions of elementary abelian p -groups. 90c:57069
 Cappell, Sylvain E. (with Shaneson, Julius L.; Steinberger, Mark; Weinberger, Shmuel; West, James) The classification of nonlinear similarities over \mathbb{Z}_p . 90c:57070
 Cho, Eung Chun s -Smith equivalent representations of dihedral groups. 90c:57032
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 — Free actions on spaces with nonzero Euler characteristic. 90j:57033
 tom Dieck, Tammo Modification of linking in representation forms. 90h:57048
 — Linking in cyclic representation forms. 90h:57049
 Dovermann, Karl Heinz (with Rothenberg, Melvin) The generalized Whitehead torsion of a G -fibre homotopy equivalence. 90i:57028
 — (with Washington, Lawrence C.) Relations between cyclotomic units and Smith equivalence of representations. 90c:57071
 Edmonds, Allan L. Aspects of group actions on four-manifolds. 90h:57050
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 Kojima, Sadayoshi Isometry transformations of hyperbolic 3-manifolds. 90c:57033
 Lee, Sungyun (with Suh, Dong Youp) Some linearity of cyclic actions on S^4 with two fixed points. 90m:57032
 Madsen, L. (with Rothenberg, Melvin) Equivariant pseudo-isotopies and K_{-1} . 90g:57028
 Mio, Washington Nonlinearly equivalent representations of quaternionic 2-groups. 90d:57043
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 Suh, Dong Youp Isotropy representations of cyclic group actions on homotopy spheres. 90c:57034
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 — G -signatures and cyclotomic units. 90g:57029
 — All finite groups act on fake complex projective spaces. 90m:57033
 — see also Cappell, Sylvain E.; et al., 90c:57070
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- Adem, Alejandro Torsion in equivariant cohomology. 90i:55012
 Asadi, Amir H. Integral representations of finite transformation groups. I. 90h:55008
 — Integral representations of finite transformation groups. II. Non-simply-connected spaces. 90k:55009
 Dovermann, Karl Heinz (with Masuda, Mikiya; Suh, Dong Youp) Rigid versus nonrigid cyclic actions. 90d:57045
 Dwyer, W. G. (with Miller, Haynes; Neisendorfer, Joseph) Fibrewise completion and unstable Adams spectral sequences. 90i:55034
 Furuta, Mikiyo A remark on a fixed point of finite group action on S^4 . 90g:57032
 Handel, Michael Periodic point free homeomorphism of T^2 . 90c:58168
 Hoffmann, Michael Edward Noncoincidence index, free group actions, and the fixed point property for manifolds. 90a:55006
 Inoue, Tsuyoshi The equivariant Whitehead torsions of equivariant homotopy equivalences between the unit spheres of representations of cyclic groups. 90h:57025
 Izydorek, Marek Nonsymmetric version of Bourgin-Yang theorem for multi-valued maps and free \mathbb{Z}_2 -actions. 90d:55003
 Jaco, William (with Rubinstein, J. Hyam) PL equivariant surgery and invariant decompositions of 3-manifolds. 90g:57016
 Kitada, Yasuhiko Relations among smooth Kervaire classes and smooth involutions on homotopy spheres. 90c:57051
 Kobayashi, Masako Rational homology 3-spheres with orientation reversing involution. 90d:57019
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 Misslin, Guido (with Thomas, Charles B.) On the homotopy set $[B\pi, BG]$ with π finite and G a compact connected Lie group. 90a:55027
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Schultz, Reinhard E. Pontryagin numbers and periodic diffeomorphisms of spheres. 90b:57053

— A splitting theorem for manifolds with involution and two applications. 90d:57038

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Thomas, Charles B. Free actions by p -groups on products of spheres and Yagita's invariant $po(G)$. 90m:57035

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Wang, Shi Cheng. Essential invariant circles of surface automorphisms of finite order. 90c:57026

Wang, Zhi Qiang. A Z_p-Borsuk-Ulam theorem. 90j:55007

Wu, Zhen De (with Liu, Zong Ze). Manifolds with involution whose fixed point set is $RP(2m) \cup RP(2n)$. (Chinese. English summary) 90i:57023

Yang, Hua Jian. The dimensions of smooth closed manifolds with involutions fixing the disjoint union $\ast \cup \mathbb{R}^2 P(2k)$. (Chinese) 90f:57038

Yokura, Shoichi. On free actions of finite abelian groups on T^3 . 90d:57046

57S20 Noncompact Lie groups of transformations

Asch, Tobi. Smooth $SL(2, \mathbb{C})$ actions on the 3-sphere. 90g:57031

Lee, Kyung Bai (with Raymond, Frank). Seifert manifolds modelled on principal bundles. 90f:57041

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Raymond, Frank. *see* Lee, Kyung Bai, 90f:57041

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— Certain aspects of twisted linear actions. II. 90j:57036

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Derevinskii, D. A. (with Mednykh, A. D.). Geometric properties of discrete groups acting with fixed points in a Lobachevskii space. 90a:30131

Elliott, George A. *see* Bratteli, Ola; et al., 90i:46116

Gawędziński, Krzysztof. Topological actions in two-dimensional quantum field theories. 90i:81122

Goodman, Fred. *see* Bratteli, Ola; et al., 90i:46116

Gorbatskii, V. V. Pseudo-compact homogeneous spaces. 90f:22010

Hsiang, Wu Chung. A personal perspective of differentiable transformation groups. 90i:57025

Jørgensen, Palle E. T. *see* Bratteli, Ola; et al., 90i:46116

Maxim-Rillema, Liliana. Critical mappings of Riemannian manifolds and the slice theorem for an action of the diffeomorphism group. 90f:58030

Mednykh, A. D. *see* Derevinskii, D. A., 90a:30131

Wei, Guofang. On the fundamental groups of manifolds with almost nonnegative Ricci curvature. 90m:53058

Zimmer, Robert J. Representations of fundamental groups of manifolds with a semisimple transformation group. 90i:22021

57S25 Groups acting on specific manifolds

Connolly, Francis X. (with Prassidis, Stratos). Groups which act freely on $\mathbb{R}^m \times S^{n-1}$. 90h:57052

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Dylawski, Grzegorz. An S^1 -degree and S^1 -maps between representation spheres. 90a:57055

Edmonds, Allan L. (with Ewing, John H.). Locally linear group actions on the complex projective plane. 90f:57030

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Freedman, Michael H. (with Skora, Richard K.). Strange actions of groups on spheres. II. 90f:57042

Furuta, Mikio. A remark on a fixed point of finite group action on S^4 . 90g:57032

Kwasik, Sławomir (with Schultz, Reinhard E.). Pseudofree group actions on S^4 . 90m:57034

Masuda, Mikiya. *see* Doermann, Karl Heinz; et al., 90d:57045

Pawłowski, Krzysztof. Normal representations over the connected components of fixed point sets. 90f:57031

— Fixed point sets of smooth group actions on disks and Euclidean spaces. 90i:57032

Prassidis, Stratos. *see* Connolly, Francis X., 90h:57052

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Thomas, Charles B. Free actions by p -groups on products of spheres and Yagita's invariant $po(G)$. 90m:57035

Yokura, Shoichi. On free actions of finite abelian groups on T^3 . 90d:57046

Zhang, Guang Hua (with Song, Ming Jie). Groups of fixed-point-free rational automorphisms of 4-dimensional algebraic tori. (Chinese. English summary) (Not in MR)

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Anderson, Michael T. Moduli spaces of Einstein metrics on 4-manifolds. 90i:58199

Bauer, Stefan. A linearity theorem for group actions on spheres with applications to homotopy representations. 90c:57067

Cappell, Sylvain E. (with Shaneson, Julius L.; Steinberger, Mark; Weinberger, Shmuel; West, James). The classification of nonlinear similarities over \mathbb{Z}_p . 90c:57070

Čerai, Zvonko. On a class of group actions of the Hilbert cube. 90h:57006

Charabanov, Yu. D. Φ -spaces and their subspaces that allow invariant framings. (Russian) 90m:53064

Cusick, Larry W. Free actions on spaces with nonzero Euler characteristic. 90j:57033

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— (with Petrie, Ted). The Abhyankar-Moh problem in dimension 3. 90i:14049

Doermann, Karl Heinz (with Washington, Lawrence C.). Relations between cyclotomic units and Smith equivalence of representations. 90c:57071

Handel, Michael. Periodic point free homeomorphism of T^2 . 90c:58168

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Husselini, S. Y. Coincidences for Grassmannian and associated spaces. 90k:55002

Jaworowski, Jan. A Borsuk-Ulam theorem for $O(m)$. 90f:55005

Kang, Eun Sook (with Sakong, Jungsook). Compact group actions on admissible manifolds. 90h:57051

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Lee, Sungyun (with Suh, Dong Youp). Some linearity of cyclic actions on S^4 with two fixed points. 90m:57032

Miller, Andy (with Zimmermann, B.). Large groups of symmetries of handlebodies. 90a:57015

Morimoto, Masaharu. Most of the standard spheres have one fixed point actions of A_5 . 90i:57029

Nagasaki, Ikumitsu. Semilinear G -spheres and homotopy representation groups. 90j:57034

Orlik, Peter (with Solomon, Louis). Braids and discriminants. 90g:57001

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Puppe, V. Simply connected manifolds without S^1 -symmetry. 90a:57054

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Suh, Dong Youp. *see* Lee, Sungyun, 90m:57032

Toledo, Domingo. Representations of surface groups in complex hyperbolic space. 90a:57016

Wang, Shi Cheng. Essential invariant circles of surface automorphisms of finite order. 90c:57026

Washington, Lawrence C. *see* Doermann, Karl Heinz, 90c:57071

Weinberger, Shmuel. All finite groups act on fake complex projective spaces. 90m:57033

— *see also* Cappell, Sylvain E.; et al., 90c:57070

West, James. *see* Cappell, Sylvain E.; et al., 90c:57070

Woldar, Andrew J. Genus actions of finite simple groups. 90h:20038

— On Hurwitz generation and genus actions of sporadic groups. 90i:20020

Yamagawa, Akio. Fixed-point free $SU(n)$ -actions. 90h:57047

Zimmermann, B. *see* Miller, Andy, 90a:57015

57S30 Discontinuous groups of transformations

Apanasov, B. N. The geometry of Nielsen's hull for a Kleinian group in space and quasi-conformal mappings. 90k:57046

Ghys, Étienne (with Sergiescu, Vlad). Sur un groupe remarquable de difféomorphismes du cercle. [On a remarkable group of diffeomorphisms of the circle] 90c:57035

Hildebrand, Martin (with Weeks, Jeffrey). A computer generated census of cusped hyperbolic 3-manifolds. 90f:57043

Lee, Youn W. On normal torsion-free finite index subgroups of polyhedral groups. 90d:57047

Matsumoto, Shigenori. Topological aspects of conformally flat manifolds. 90i:57033

McCallough, Darryl (with Miller, Andy). Manifold covers of 3-orbifolds with geometric pieces. 90c:57036

Miller, Andy. *see* McCallough, Darryl, 90c:57036

Morgan, John W. Trees and hyperbolic geometry. 90f:57044

Sarac, Marica. A compact hyperbolic space form derived from a plane form. 90c:57072

Sergiescu, Vlad. *see* Ghys, Étienne, 90c:57035

Soskink, Perry. Kleinian groups with intersecting limit sets. 90f:57045

Watabe, Tsuyoshi. Maximal toral action on aspherical manifolds $\Gamma \backslash G/K$ and G/H . 90c:57056

Weeks, Jeffrey. *see* Hildebrand, Martin, 90f:57043

Items with secondary classifications in 57S30

Collins, Donald J. Cohomological dimension and symmetric automorphisms of a free group. 90c:20035

Dunbar, William D. Geometric orbifolds. 90k:22011

Harvey, W. J. Modular groups and representation spaces. 90a:14037

Hejhal, Dennis A. Regular b -groups and repeated Dehn twists. 90f:30057

Kojima, Sadaoyoshi. Isometry transformations of hyperbolic 3-manifolds. 90c:57033

Matsumoto, Shigenori. On discrete group actions on the unit circle. 90d:58123

Mennicke, Jens L. On Fibonacci groups and some other groups. (see 90h:20004)

Miller, Andy (with Zimmermann, B.). Large groups of symmetries of handlebodies. 90a:57015

Paulin, Frédéric. The Gromov topology on \mathbb{R} -trees. 90k:57015

Potyagailo, L. D. Three-dimensional Kleinian groups that are isomorphic to the fundamental group of the Haken manifold. 90k:57020

Tukia, Pekka. A rigidity theorem for Möbius groups. 90i:20051

Weinberger, Shmuel. All finite groups act on fake complex projective spaces. 90m:57033

Zimmermann, B. *see* Miller, Andy, 90a:57015

57S99 None of the above, but in this section

Smith, Larry. Replacing homotopy actions by topological actions. II. 90d:57048

Items with secondary classifications in 57S99

- Andersson, Lars Åke On the space of asymptotically Euclidean metrics. 90e:58014
 Goldman, William M. (with Kamishima, Yoshinobu) Topological rigidity of developing maps with applications to conformally flat structures. 90f:53060
 — Geometric structures on manifolds and varieties of representations. 90i:57024
 Grissom, Charles (with Thompson, Gerard; Wilkens, George) Linearization of second order ordinary differential equations via Cartan's equivalence method. 90b:34058
 Kamishima, Yoshinobu see Goldman, William M., 90f:53060
 Koras, Mariusz (with Russell, P.) Codimension 2 torus actions on affine n -space. 90j:14061
 Makeev, V. V. The Knaster problem on the continuous mappings from a sphere to a Euclidean space. (Russian. English summary) 90e:55006
 — The Knaster problem and almost spherical sections. 90d:55005
 Natsanson, S. M. Finite groups of homeomorphisms of surfaces, and real forms of complex algebraic curves. (Russian) 90b:14038
 Petrie, Ted Smooth conjugacy of algebraic actions on affine varieties. 90j:14064
 Phillips, N. Christopher Equivariant K -theory for proper actions and C^* -algebras. 90a:46182
 — Equivariant K -theory for proper actions. II. Some cases in which finite-dimensional bundles suffice. 90a:46183
 Russell, P. see Koras, Mariusz, 90j:14061
 Thompson, Gerard see Grissom, Charles; et al., 90b:34058
 Tukia, Pekka A remark on a paper by Floyd. 90b:30054
 Wilkens, George see Grissom, Charles; et al., 90b:34058

57Txx Homology and homotopy of topological groups and related structures

57T10 Homology and cohomology of Lie groups

- Cathelineau, J. L. Sur l'homologie de SL_2 à coefficients dans l'action adjointe. [SL_2 -homology with coefficients in the adjoint action] 90h:57054
 Kane, Richard M. (with Moreno, Guillermo) Spherical homology classes in the bordism of Lie groups. 90e:57073
 Moreno, Guillermo see Kane, Richard M., 90e:57073
 Rao, Vidhyanath The bar spectral sequence converging to $h_*(SO(2n+1))$. 90e:57046
 Items with secondary classifications in 57T10
 Aralia, Alberto Cohomologie T -équivariante de la variété de drapeaux d'un groupe de Kac-Moody. (English summary) [T -equivariant cohomology of the flag manifold of a Kac-Moody group] 90i:32042
 Hens, Hans-Werner Classifying spaces with injective mod p cohomology. 90d:55028
 Hitt, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] 90e:22019
 Kroll, Ove The cohomology of the finite general linear group. 90b:20066
 Lee, Kyung Bai (with Raymond, Frank) Seifert manifolds modelled on principal bundles. 90e:57041
 Mahmud, Zafer Unstable atomicity of $\Omega \text{Spin}(r)$. 90h:55012
 Pittie, Harsh V. The Dolbeault-cohomology ring of a compact, even-dimensional Lie group. 90e:32035
 Raymond, Frank see Lee, Kyung Bai, 90e:57041

57T15 Homology and cohomology of homogeneous spaces of Lie groups

- Bressler, Paul (with Evens, Sam) The Schubert calculus, braid relations, and generalized cohomology. 90e:57074
 Cenkl, Bohumil (with Porter, Richard) L'anneau de cohomologie entière d'une nilvariété. (English summary) [The integral cohomology ring of a nilmanifold] 90a:57057
 Evens, Sam see Bressler, Paul, 90e:57074
 Porter, Richard see Cenkl, Bohumil, 90a:57057
 Shchetalina, A. N. On a class of compact homogeneous spaces. I. 90d:57049

Items with secondary classifications in 57T15

- Douglas, R. R. (with Rutherford, A. R.) Berry phase and compact transformation groups. 90a:81045
 Freitas, Raphaël K -théorie réelle des variétés de Stiefel quaternioniques. (English summary) [KO -theory of quaternionic Stiefel manifolds] 90j:55009
 Frohlinger, John A. Maximal homotopy Lie subgroups of maximal rank. 90e:55016
 Masbaum, Gregor Sur l'algèbre de cohomologie entière du classifiant du groupe de jauge. (English summary) [On the integral cohomology algebra of the classifying space of the gauge group] 90e:55032
 Rutherford, A. R. see Douglas, R. R., 90a:81045

57T20 Homotopy groups of topological groups and homogeneous spaces

- Yamaguchi, Atsushi On the p -regularity of Stiefel manifolds. 90h:57055

Items with secondary classifications in 57T20

- Crabb, M. C. (with Knapp, K.) James numbers. 90a:55022
 Douglas, R. R. (with Rutherford, A. R.) Berry phase and compact transformation groups. 90a:81045
 Greenberg, Peter Homology of some groups of p -homeomorphisms of the line. 90i:20054
 Hebda, James J. (with Moylan, Patrick Joseph) A topological criterion for group decompositions. 90a:53057

- Jiang, Cai Kun On the fundamental groups of noncompact symmetric spaces. (Chinese) 90e:22016

- Knapp, K. see Crabb, M. C., 90a:55022
 Moylan, Patrick Joseph see Hebda, James J., 90a:53057
 Rutherford, A. R. see Douglas, R. R., 90a:81045
 Wang, Qi Ming On totally geodesic spheres in Grassmannians and $O(n)$. 90f:53101

57T25 Homology and cohomology of H -spaces

- Nguyễn Hà's Việt Hu'ng Classes de Dickson et algèbres de cohomologie des espaces de lacets itérés. (English summary) [Dickson classes and cohomology algebras of iterated loop spaces] 90e:57037

Items with secondary classifications in 57T25

- Boyer, C. P. (with Mann, Benjamin M.) Instantons and homotopy. 90f:58031
 Lin, James P. Lie groups from a homotopy point of view. 90d:55012
 Mann, Benjamin M. see Boyer, C. P., 90f:58031
 Rao, Vidhyanath The Hopf algebra structure of the complex bordism of the loop spaces of the special orthogonal groups. 90e:55009

57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

Items with secondary classifications in 57T30

- Rao, Vidhyanath The bar spectral sequence converging to $h_*(SO(2n+1))$. 90e:57046
 — On the Morava K -theories of $SO(2n+1)$. 90e:55011

57T99 None of the above, but in this section

- Bédigheimer, C.-F. (with Cohen, Frederick R.) Rational cohomology of configuration spaces of surfaces. 90e:57075
 Cohen, Frederick R. see Bédigheimer, C.-F., 90e:57075
 Items with secondary classifications in 57T99
 Charney, R. M. (with Cohen, Frederick R.) A stable splitting for the mapping class group. 90a:55021
 Cohen, Frederick R. Artin's braid groups, classical homotopy theory, and sundry other curiosities. 90a:20077
 — see also Charney, R. M., 90a:55021
 Friedlander, Eric M. (with Mislin, Guido) Conjugacy classes of finite solvable subgroups in Lie groups. 90f:22017
 Menzy, Paul Shape group studies of molecular similarity: shape groups and shape graphs of molecular contour surfaces. 90j:92062
 Mislin, Guido see Friedlander, Eric M., 90f:22017
 Ōshima, Hideaki Coregrees of simple Lie groups. 90m:55015
 Vodopyanov, S. K. Potential theory on homogeneous groups. 90b:31010

58-XX Global analysis, analysis on manifolds [see also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49F20, 49F22]

58-01 Elementary exposition; textbooks

- Arnold, V. I. ★ Mathematische Methoden der klassischen Mechanik. (German) [Mathematical methods of classical mechanics] 90e:58001
 Ballint, Șt. ★ Analiza pe varietăți. (Romanian) [Analysis on manifolds] 90m:58001
 (Madzharova, Yana) see Nirenberg, L., 90e:58002
 (Möbius, Peter) see Arnold, V. I., 90e:58001
 Nirenberg, L. Mathematical methods in nonlinear problems. (Bulgarian) 90e:58002

Items with secondary classifications in 58-01

- Abraham, Ralph H. (with Shaw, Christopher D.) ★ Dynamics—the geometry of behavior. Part 2. 90m:58057a
 — (with Shaw, Christopher D.) ★ Dynamics—the geometry of behavior. Part 3. 90m:58057b
 — (with Shaw, Christopher D.) ★ Dynamics—the geometry of behavior. Part 4. 90m:58057c
 (Antelmann, Horst) see Dieudonné, Jean, 90e:00001
 Barnsley, Michael F. ★ Fractals everywhere. 90e:58080
 Binz, E. (with Śniatycki, Jędrzej; Fischer, Hans Rudolf) ★ Geometry of classical fields. 90a:58045
 (Boll, Ludwig) see Dieudonné, Jean, 90e:00001
 Carroll, Robert Wayne ★ Mathematical physics. 90g:00002
 Dieudonné, Jean ★ Grundzüge der modernen Analysis. 2. (German) [Fundamentals of modern analysis. 2.] 90e:00001
 Dodson, C. T. J. ★ Categories, bundles and spacetime topology. 90e:53164
 Dorodnitsyn, V. A. (with Elenin, G. G.) Symmetry of nonlinear phenomena. (Russian) 90m:58230
 Dubrovinskii, B. A. (with Novikov, S. P.; Fomenko, A. T.) ★ Geometria contemporană. Metode și aplicații. Vol. I. (Italian) [Modern geometry. Methods and applications. Vol. I.] 90h:53001a

— (with Novikov, S. P.; Fomenko, A. T.) ★ *Geometria contemporanea. Metodi e applicazioni. Vol. II. (Italian) [Modern geometry. Methods and applications. Vol. II]* 90b:53001b

Elenin, G. G. see Dorodnitsyn, V. A., 90b:58230

Fischer, Hans Rudolf see Biaz, E.; et al., 90a:58045

Flanders, Harley ★ *Differential forms with applications to the physical sciences.* 90k:53001

Fomenko, A. T. see Dubrovin, B. A.; et al., 90b:53001a and 90b:53001b

Francaviglia, Mauro ★ *Elements of differential and Riemannian geometry.* 90a:53001

Iooss, G. (with Joseph, Daniel D.) ★ *Elementary stability and bifurcation theory.* 90i:34001

Joseph, Daniel D. see Iooss, G., 90i:34001

Kocharovskii, V. G. see Kovantsov, N. I.; et al., 90k:53002

Kovantsov, N. I. (with Zrazhevskaya, G. M.; Kocharovskii, V. G.; Mikhailovskii, V. I.)

★ *Дифференциальная геометрия, топология, тензорный анализ. (Russian) [Differential geometry, topology, tensor analysis]* 90k:53002

Mikhailovskii, V. I. see Kovantsov, N. I.; et al., 90k:53002

Novikov, S. P. see Dubrovin, B. A.; et al., 90b:53001a and 90b:53001b

(Panassenko, Vitalii) see Dubrovin, B. A.; et al., 90b:53001a and 90b:53001b

Postnikov, M. M. ★ *Дифференциальная геометрия. (Russian) [Differential geometry]* 90b:53002

Ruelle, D. The Claude Bernard Lecture, 1989. Deterministic chaos: the science and the fiction. 90m:58140

Shaw, Christopher D. see Abraham, Ralph H., 90m:58057a; 90m:58057b and 90m:58057c

Sniatycki, Jędrzej see Biaz, E.; et al., 90a:58045

Zrazhevskaya, G. M. see Kovantsov, N. I.; et al., 90k:53002

58-02 Advanced exposition (research surveys, monographs, etc.)

(von Helmholtz, Hermann) see Hermann, Robert, 90b:58001

Hermann, Robert ★ *Topics in physical geometry.* 90b:58001

Items with secondary classifications in 58-02

Arnol'd, V. I. (with Vishik, M. I.; Ilyashenko, Yu. S.; Kalashnikov, A. S.; Kondrat'ev, V. A.; Kruzhkov, S. N.; Landis, E. M.; Millionshchikov, V. M.; Oleinik, O. A.; Filippov, A. F.; Shubin, M. A.) Some unsolved problems in the theory of differential equations and mathematical physics. 90m:00003

Atiyah, Michael The impact of physics on geometry. 90d:00055

Blank, M. L. Small perturbations of chaotic dynamical systems. (Russian) 90m:58181

(Boron, Leo F.) see Zeidler, Eberhard, 90b:49005

Eckmann, J.-P. Resonances in dynamical systems. 90m:58114

Euler, N. see Steeb, W.-H., 90b:58045

Filippov, A. F. see Arnol'd, V. I.; et al., 90m:00003

Fomenko, A. T. ★ *Integrability and nonintegrability in geometry and mechanics.* 90c:58054

— (with Trofimov, V. V.) ★ *Integrable systems on Lie algebras and symmetric spaces.* 90d:58035

— ★ *Симплектическая геометрия. (Russian) [Symplectic geometry]* 90k:58002

Gromov, Mikhael L. ★ *Partial differential relations.* 90a:58201

Ilyashenko, Yu. S. see Arnol'd, V. I.; et al., 90m:00003

Kalashnikov, A. S. see Arnol'd, V. I.; et al., 90m:00003

(Karaulov, A.) see Fomenko, A. T., 90d:58035

Karoubi, Max Cyclic homology and characteristic classes of bundles with additional structures. 90d:58149

Kondrat'ev, V. A. see Arnol'd, V. I.; et al., 90m:00003

Kruzhkov, S. N. see Arnol'd, V. I.; et al., 90m:00003

Landis, E. M. see Arnol'd, V. I.; et al., 90m:00003

Millionshchikov, V. M. see Arnol'd, V. I.; et al., 90m:00003

Oleinik, O. A. see Arnol'd, V. I.; et al., 90m:00003

Palls, J. (with Takens, Floris) ★ *Homoclinic bifurcations and hyperbolic dynamics.* 90c:58143

(Quandt, Jürgen) see Zeidler, Eberhard, 90b:00004

(Rayfield, P. D.) see Fomenko, A. T., 90d:58035

Shubin, M. A. see Arnol'd, V. I.; et al., 90m:00003

Steeb, W.-H. (with Euler, N.) ★ *Nonlinear evolution equations and Painlevé test.* 90b:58045

Takens, Floris see Palls, J., 90c:58143

Trofimov, V. V. see Fomenko, A. T., 90d:58035

(Tsaplina, M. V.) see Fomenko, A. T., 90c:58054

Vishik, M. I. see Arnol'd, V. I.; et al., 90m:00003

(Weisman, A.) see Fomenko, A. T., 90d:58035

Zeidler, Eberhard ★ *Nonlinear functional analysis and its applications. III.* 90b:49005

— ★ *Nonlinear functional analysis and its applications. IV.* 90b:00004

58-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 58-03

Arnol'd, V. I. ★ *Гюйгенс и Барроу, Ньютона и Гук. (Russian) [Huygens and Barrow, Newton and Hooke]* 90i:01008

(Barrow, Isaac) see Arnol'd, V. I., 90i:01008

Bondi, Hermann The prehistory of chaos. 90c:58107

Bott, Raoul The topological constraints on analysis. 90j:01034

Daniilo, Yu. A. Nonlinear dynamics: Poincaré and Mandelstam. 90m:01032

Dell'Aglio, Luca (with Israel, Giorgio) La théorie de la stabilité et l'analyse qualitative des équations différentielles ordinaires dans les mathématiques italiennes: le point de vue de Tullio Levi-Civita. [The theory of stability and qualitative analysis of ordinary differential equations in Italian mathematics: the point of view of Tullio Levi-Civita] 90i:01021

Gutzwiller, Martin C. Chaos and symmetry in the history of mechanics. (Italian and Russian summaries) 90k:01002

Hildebrandt, Stefan (with Tromba, Anthony) ★ *Panoptimum. (German)* 90k:00007

(Hooke, Robert) see Arnol'd, V. I., 90i:01008

(Huygens, Christiaan) see Arnol'd, V. I., 90i:01008

Israel, Giorgio see Dell'Aglio, Luca, 90i:01021

(Kolmogorov, A. N.) see Sinai, Ya. G., 90b:01055

Kovalevsky, J. Applications of computers to celestial mechanics. 90j:01138

(Leibniz, Gottfried Wilhelm) see Arnol'd, V. I., 90i:01008

(Levi-Civita, Tullio) see Dell'Aglio, Luca, 90i:01021

(Liao, Shan Tao) see Zhang, Zhu Sheng, 90d:01080

Mira, Christian Some historical aspects concerning the theory of dynamic systems. 90k:01022

(Newton, I.) see Arnol'd, V. I., 90i:01008

Sinai, Ya. G. About A. N. Kolmogorov's work on the entropy of dynamical systems. 90b:01055

Teissier, Bernard Travaux de Thom sur les singularités. [The works of Thom on singularities] 90c:01106

(Thom, René) see Teissier, Bernard, 90c:01106

Tromba, Anthony see Hildebrandt, Stefan, 90k:00007

Uhlenbeck, K. Commentary on "analysis in the large". 90m:01043

Zhang, Zhu Sheng The research works of Professor Shan Tao Liao in differentiable dynamical systems. (Chinese. English summary) 90d:01080

58-04 Explicit machine computation and programs (not the theory of computation or programming)

Abelson, Harold (with Eisenberg, Michael; Halfant, Matthew; Katzenelson, Jacob; Sacks, Elisha; Sussman, Gerald J.; Wisdom, J.; Yip, Kenneth) Intelligence in scientific computing. 90c:58003

Armbruster, Dieter Computer algebra programs for dynamical systems theory. 90b:58001

Cowell, R. G. (with Wright, F. J.) CATFACT: computer algebraic tools for applications of catastrophe theory. (see 90i:68007)

Eisenberg, Michael see Abelson, Harold; et al., 90c:58003

Halfant, Matthew see Abelson, Harold; et al., 90c:58003

Katzenelson, Jacob see Abelson, Harold; et al., 90c:58003

Sacks, Elisha see Abelson, Harold; et al., 90c:58003

Sussman, Gerald J. see Abelson, Harold; et al., 90c:58003

Wisdom, J. see Abelson, Harold; et al., 90c:58003

Wright, F. J. see Cowell, R. G., (90i:68007)

Yip, Kenneth see Abelson, Harold; et al., 90c:58003

Items with secondary classifications in 58-04

Alexander, N. A. Production of computational portraits of bounded invariant manifolds. 90i:58134

Arney, David C. (with Robinson, B. T.) Exhibiting chaos and fractals with a microcomputer. 90i:58103

Bartlett, James H. Stability of an area-preserving mapping. 90g:58117

Bocharov, A. V. (with Bronshtein, M. L.) Efficiently implementing two methods of the geometrical theory of differential equations: an experience in algorithm and software design. 90j:65002

Boult, T. (with Sikorski, K.) An optimal complexity algorithm for computing the topological degree in two dimensions. 90b:65084

Bronshtein, M. L. see Bocharov, A. V., 90j:65002

Coffey, Shannon (with Deprit, André; Etienne, Etienne; Healy, Liam) Painting the phase space portrait of an integrable dynamical system. 90m:58148

Coppola, V. T. (with Rand, Richard H.) Computer algebra, Lie transforms and the nonlinear stability of L_4 . (Not in MR)

— (with Rand, Richard H.) Symbolic computation and perturbation methods using elliptic functions. 90c:65110

— (with Rand, Richard H.) Computer algebra implementation of Lie transforms for Hamiltonian systems: application to the nonlinear stability of L_4 . (German and Russian summaries) 90i:58045

Cushman, Richard (with Sanders, Jan A.) The constrained normal form algorithm. 90i:58046

Deprit, André see Coffey, Shannon; et al., 90m:58148

Deprit, Etienne see Coffey, Shannon; et al., 90m:58148

Devaney, Robert L. Film and video as a tool in mathematical research. 90g:58058

Doedel, Eusebius J. (with Friedman, Mark J.) Numerical computation of heteroclinic orbits. 90j:58107

Franquelo, Leopoldo G. see Freire, Emilio; et al., 90k:58151

Freire, Emilio (with Gamero, Estanislao; Ponce, Enrique) An algorithm for symbolic computation of Hopf bifurcation. 90j:58110

— (with Gamero, Estanislao; Ponce, Enrique; Franquelo, Leopoldo G.) An algorithm for symbolic computation of center manifolds. 90k:58151

Friedman, Mark J. see Doedel, Eusebius J., 90j:58107

Fuchssteiner, Benno see Oevel, W.; et al., 90j:58061

Fushchich, V. I. (with Korniyak, V. V.) Computer algebra application for determining Lie and Lie-Bäcklund symmetries of differential equations. 90d:58166

Gamero, Estanislao see Freire, Emilio; et al., 90j:58110 and 90k:58151

Gerdts, V. P. (with Zharkov, A. Yu.; Svinolupov, S. I.; Shabat, A. B.) Application of computer algebra to the investigation of the integrability of nonlinear evolution systems. 90c:65176

— (with Zharkov, A. Yu.) ★ *Решение полиномиальных уравнений, возникающих при классификации интегрируемых систем типа связанного уравнения Кортевега-де Вриза. (Russian) [Solution of polynomial equations that arise in the classification of integrable systems of the coupled Korteweg-de Vries equation type]* 90i:58068

— (with Zharkov, A. Yu.) Computer classification of integrable seventh order MKdV-like equations. (see 90i:68007)

Griffiths, D. F. The dynamics of some linear multistep methods with step-size control. 90b:65122

Gu, Keqin see Tongue, Benson H., 90j:70003

- Guckenheimer, John (with Rand, Richard H.; Schlomiuk, Dana) Degenerate homoclinic cycles in perturbations of quadratic Hamiltonian systems. 90j:58104
- Healy, Liam see Coffey, Shannon; et al. 90a:58148
- (Hustad, Otto) see Peitgen, Heinz-Otto, 90i:58088
- Jürgens, Hartmut see Peitgen, Heinz-Otto, 90i:58088
- Kersten, Paul H. M. Software to compute infinitesimal symmetries of exterior differential systems, with applications. 90j:58160
- Kornya, V. V. Integration of defining systems of Bäcklund symmetries by means of computer algebra. (Russian) 90i:58207
- see also Fuschich, V. L., 90d:58166
- Kostelich, Eric J. (with Yorke, James A.) Using dynamic embedding methods to analyze experimental data. 90k:58134
- Marcus, C. M. see Waugh, F. R.; et al., 90m:92031
- Oevel, W. (with Fuchssteiner, Benno; Zhang, Hong Wei¹; Ragnisco, O.) Mastersymmetries, angle variables, and recursion operator of the relativistic Toda lattice. 90j:58061
- Peitgen, Heinz-Otto (with Jürgens, Hartmut) Fractals: computer experiments with (de)mystifying complex-structures. (Norwegian. English summary) 90i:58088
- Ponce, Enrique see Freire, Emilio; et al., 90j:58110 and 90k:58151
- Ragnisco, O. see Oevel, W.; et al., 90j:58061
- Rand, Richard H. see Coppola, V. T., 90c:65110; Guckenheimer, John; et al., 90g:58104; Coppola, V. T., 90i:58045 and (Not in MR)
- Reeve, D. E. Some relations of the Mandelbrot and Julia sets: a computational exploration. (Not in MR)
- Robinson, B. T. see Arney, David C., 90i:58103
- Rychlik, Marek Ryszard Periodic points of the billiard ball map in a convex domain. 90j:58108
- Saha, Prasenjit A numerical perturbation method based on the KAM construction. 90g:58115
- Sanders, Jan A. see Cushman, Richard, 90i:58046
- Schlomiuk, Dana see Guckenheimer, John; et al., 90g:58104
- Shabat, A. B. see Gerdt, V. P.; et al., 90c:65176
- Sikorski, K. see Boult, T., 90h:65084
- Svinolapov, S. I. see Gerdt, V. P.; et al., 90c:65176
- Tongue, Benson H. (with Gu, Keqin) Adaptive mesh strategies for interpolated mapping procedures. 90j:70003
- Waugh, F. R. (with Marcus, C. M.; Westervelt, R. M.) Fixed-point attractors in analog neural computation. 90m:92031
- Westervelt, R. M. see Waugh, F. R.; et al., 90m:92031
- Yorke, James A. see Kostelich, Eric J., 90k:58134
- Zhang, Hong Wei¹ see Oevel, W.; et al., 90j:58061
- Zharkov, A. Yu. see Gerdt, V. P.; et al., 90c:65176; 90i:58068 and (90i:68007)

58-06 Proceedings, conferences, etc.

- (Albert, Claude) see Symplectic and mechanical geometry, 90m:58002
- (Borisovich, Yu. G.) see Global analysis and nonlinear equations, 90f:58002
- (Conley, Charles C.) see Charles Conley memorial volume, 90c:58001
- (Folias, Ciprian) see Connection between infinite-dimensional and finite-dimensional dynamical systems, 90h:58002
- (Gamkrelidze, R. V.) see Current problems in mathematics. Newest results, 90c:58003 and 90c:58004
- (Guo, Zhong Heng) see Modern mathematics and mechanics, 90h:58001
- (Herman, M.-R.) see Charles Conley memorial volume, 90c:58001
- (Lê Dũng Tráng) see Introduction to the algebraic theory of differential systems, 90f:58003
- (McGehee, Richard) see Charles Conley memorial volume, 90c:58001
- (Moser, Jürgen K.) see Charles Conley memorial volume, 90c:58001
- (Nicolaienko, Basil) see Connection between infinite-dimensional and finite-dimensional dynamical systems, 90h:58002
- (Temam, R.) see Connection between infinite-dimensional and finite-dimensional dynamical systems, 90h:58002
- (Tiraepul, Enrique) see Instabilities and nonequilibrium structures, 90h:58003
- (Villarreal, Danilo) see Instabilities and nonequilibrium structures, 90h:58003
- (Vinogradov, A. M.) see Symmetries of partial differential equations, (Not in MR); (Not in MR) and (Not in MR)
- (Zehnder, Eduard) see Charles Conley memorial volume, 90c:58001

Items listed otherwise than by author

- Algebraic analysis of nonlinear integrable systems ★ Hisenkei sekibunanō kei no daisō kaiseikigaku. (Japanese) [Algebraic analysis of nonlinear integrable systems] 90d:58001
- Algebraic manipulation for differential equations ★ Bibun hoteishiki no sūshikishori shisutemu no kenkyū. (Japanese) [Algebraic manipulation for differential equations] 90f:58001
- Beijing ★ Jindai shuxue yu lixue. (Chinese) [Modern mathematics and mechanics] 90f:58001
- Bibliography:
Conley, Charles ★ Charles Conley memorial volume. 90c:58001
- Biography:
Conley, Charles ★ Charles Conley memorial volume. 90c:58001
- Boulder, CO ★ The connection between infinite-dimensional and finite-dimensional dynamical systems. 90h:58002
- Charles Conley memorial volume ★ Charles Conley memorial volume. 90c:58001
- Colloquium:
Introduction to the Algebraic Theory of Differential Systems ★ Introduction à la théorie algébrique des systèmes différentiels. (French) [Introduction to the algebraic theory of differential systems] 90f:58003
- Symplectic and Mechanical Geometry ★ Géométrie symplectique et mécanique. (French) [Symplectic and mechanical geometry] 90m:58002
- Complex analysis and global analysis—from the viewpoint of differential equations ★ Fukusokaiseki to taiikikaiseki—bibun hoteishiki no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] 90c:58002

Conference:

- Connection between Infinite-dimensional and Finite-dimensional Dynamical Systems ★ The connection between infinite-dimensional and finite-dimensional dynamical systems. 90h:58002
- Modern Mathematics and Mechanics ★ Jindai shuxue yu lixue. (Chinese) [Modern mathematics and mechanics] 90h:58001
- Connection between infinite-dimensional and finite-dimensional dynamical systems ★ The connection between infinite-dimensional and finite-dimensional dynamical systems. 90h:58002
- Contemporary Mathematics ★ The connection between infinite-dimensional and finite-dimensional dynamical systems. 90h:58002
- Current problems in mathematics. Newest results ★ Современные проблемы математики. Новейшие достижения. Том 34. (Russian) [Current problems in mathematics. Newest results. Vol. 34] 90c:58003
- ★ Современные проблемы математики. Новейшие достижения. Том 35. (Russian) [Current problems in mathematics. Newest results. Vol. 35] 90c:58004
- Géométrie symplectique et mécanique ★ Géométrie symplectique et mécanique. (French) [Symplectic and mechanical geometry] 90m:58002
- Global analysis and nonlinear equations ★ Глобальный анализ и нелинейные уравнения. (Russian) [Global analysis and nonlinear equations] 90f:58002
- Instabilities and nonequilibrium structures ★ Instabilities and nonequilibrium structures. II. 90h:58003
- Introduction à la théorie algébrique des systèmes différentiels ★ Introduction à la théorie algébrique des systèmes différentiels. (French) [Introduction to the algebraic theory of differential systems] 90f:58003
- Introduction to the algebraic theory of differential systems ★ Introduction à la théorie algébrique des systèmes différentiels. (French) [Introduction to the algebraic theory of differential systems] 90f:58003
- Itogi Nauki i Tekhniki ★ Современные проблемы математики. Новейшие достижения. Том 34. (Russian) [Current problems in mathematics. Newest results. Vol. 34] 90c:58003
- ★ Современные проблемы математики. Новейшие достижения. Том 35. (Russian) [Current problems in mathematics. Newest results. Vol. 35] 90c:58004
- La Grande Motte ★ Géométrie symplectique et mécanique. (French) [Symplectic and mechanical geometry] 90m:58002
- Lecture Notes in Mathematics ★ Géométrie symplectique et mécanique. (French) [Symplectic and mechanical geometry] 90m:58002
- Modern mathematics and mechanics ★ Jindai shuxue yu lixue. (Chinese) [Modern mathematics and mechanics] 90h:58001
- Plans-sur-Bex ★ Introduction à la théorie algébrique des systèmes différentiels. (French) [Introduction to the algebraic theory of differential systems] 90f:58003
- Seminar:
Geometry ★ Géométrie symplectique et mécanique. (French) [Symplectic and mechanical geometry] 90m:58002
- Spectral Theory and Geometry ★ Séminaire de Théorie Spectrale et Géométrie. Année 1983-1984. (French) [Seminar on Spectral Theory and Geometry. Year 1983-1984] 90f:58001
- Several aspects of algebraic analysis ★ Daisui kaiseikigaku no shoso. (Japanese) [Several aspects of algebraic analysis] 90b:58002
- Special Issue:
Symmetries of partial differential equations ★ Symmetries of partial differential equations. Part I. (Not in MR)
- ★ Symmetries of partial differential equations. Part II. (Not in MR)
- ★ Symmetries of partial differential equations. Part III. (Not in MR)
- Symmetries of partial differential equations ★ Symmetries of partial differential equations. Part I. (Not in MR)
- ★ Symmetries of partial differential equations. Part II. (Not in MR)
- ★ Symmetries of partial differential equations. Part III. (Not in MR)
- Symplectic and mechanical geometry ★ Géométrie symplectique et mécanique. (French) [Symplectic and mechanical geometry] 90m:58002
- Symposium:
Algebraic Analysis of Nonlinear Integrable Systems ★ Hisenkei sekibunanō kei no daisō kaiseikigaku. (Japanese) [Algebraic analysis of nonlinear integrable systems] 90d:58001
- Algebraic Manipulation for Differential Equations ★ Bibun hoteishiki no sūshikishori shisutemu no kenkyū. (Japanese) [Algebraic manipulation for differential equations] 90f:58001
- Complex Analysis and Global Analysis—from the Viewpoint of Differential Equations ★ Fukusokaiseki to taiikikaiseki—bibun hoteishiki no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] 90c:58002
- Several Aspects of Algebraic Analysis ★ Daisui kaiseikigaku no shoso. (Japanese) [Several aspects of algebraic analysis] 90b:58002
- View of Algebraic Analysis ★ Daisui kaiseikigaku no tenbo. (Japanese) [A view of algebraic analysis] 90a:58001
- Valparaiso ★ Instabilities and nonequilibrium structures. II. 90h:58003
- View of algebraic analysis ★ Daisui kaiseikigaku no tenbo. (Japanese) [A view of algebraic analysis] 90a:58001
- Workshop:
Instabilities and Nonequilibrium Structures ★ Instabilities and nonequilibrium structures. II. 90h:58003
- Items with secondary classifications in 58-06
- (Balabane, Mikhael) see Integrable systems and applications, 90i:35002
- (Barber, M. N.) see Miniconference: Geometry and Physics, 90h:00015
- (Birkhoff, George David) see Dynamical systems: a renewal of mechanism, 90i:58038
- (Bogolyubov, N. N.) see Statistical mechanics and the theory of dynamical systems, (Not in MR)
- (Bogolyubov, N. N., Jr.) see Statistical mechanics and the theory of dynamical systems, (Not in MR)

- (Bureš, Jarolm) *see* Proceedings: School on Geometry and Physics, 90d:00042
- (Cheng, S.-Y.) *see* Recent developments in geometry, 90i:53002
- (Choi, Hyeon In) *see* Recent developments in geometry, 90i:53002
- (Diner, S.) *see* Dynamical systems: a renewal of mechanism, 90i:58038
- (Doebner, H.-D.) *see* Proceedings: Conference on Differential Geometric Methods in Theoretical Physics, 90i:00004
- (Elworthy, K. David) *see* Stochastic analysis, path integration and dynamics, 90e:60005
- (Fargue, Daniel) *see* Dynamical systems: a renewal of mechanism, 90i:58038
- (Gill, Tepper L.) *see* Nonlinear semigroups, partial differential equations and attractors, 90f:00006
- (Greene, Robert E.) *see* Recent developments in geometry, 90i:53002
- (Hennig, J. D.) *see* Proceedings: Conference on Differential Geometric Methods in Theoretical Physics, 90i:00004
- (Jiang, Bo Ju) *see* Topological fixed point theory and applications, 90i:55001
- (Kaminker, J.) *see* Geometric and topological invariants of elliptic operators, 90k:58206
- (Kirchgraber, U.) *see* Dynamics reported, 90a:58041
- (Leon, Jérôme Jp.) *see* Nonlinear evolutions, 90k:00029
- (Lochak, G.) *see* Dynamical systems: a renewal of mechanism, 90i:58038
- (Lochak, P.) *see* Integrable systems and applications, 90i:35002
- (Moser, Jürgen K.) *see* Analysis, et cetera, 90m:00014
- (Murray, M. K.) *see* Miniconference: Geometry and Physics, 90h:00015
- (Otrokov, N. F.) *see* Differential and integral equations, 90d:34002
- (Rabinowitz, Paul H.) *see* Analysis, et cetera, 90m:00014
- (Sharipov, Sh. R.) *see* Qualitative and analytic methods in the dynamics of systems, 90a:00011
- (Souček, Vladimír) *see* Proceedings: School on Geometry and Physics, 90d:00042
- (Salem, C.) *see* Integrable systems and applications, 90i:35002
- (Tournier, E.) *see* Computer algebra and differential equations, 90m:12002
- (Walther, Hans-Otto) *see* Dynamics reported, 90a:58041
- (Zachary, Woodford W.) *see* Nonlinear semigroups, partial differential equations and attractors, 90f:00006
- (Zambini, J.-C.) *see* Stochastic analysis, path integration and dynamics, 90e:60005
- (Zehnder, Eduard) *see* Analysis, et cetera, 90m:00014
- Items listed otherwise than by author
- Analysis, et cetera ★ Analysis, et cetera. 90m:00014
- Anniversary:
- Birth of Birkhoff, George David ★ Dynamical systems: a renewal of mechanism. 90i:58038
- Attractors, inertial manifolds and their approximation ★ Attractors, inertial manifolds and their approximation. 90c:58047
- Balaruc-les-Bains ★ Nonlinear evolutions. 90k:00029
- Birthday:
- Bogolyubov, N. N. ★ Статистическая механика и теория динамических систем. (Russian) [Statistical mechanics and the theory of dynamical systems] (Not in MR)
- Brunswick, ME ★ Geometric and topological invariants of elliptic operators. 90k:58206
- Canberra ★ Miniconference on Geometry and Physics. 90h:00015
- Clausthal ★ Proceedings of the XV International Conference on Differential Geometric Methods in Theoretical Physics. 90i:00004
- Computer algebra and differential equations ★ Computer algebra and differential equations. 90m:12002
- Conference:
- Differential Geometric Methods in Theoretical Physics ★ Proceedings of the XV International Conference on Differential Geometric Methods in Theoretical Physics. 90i:00004
- Geometric and Topological Invariants of Elliptic Operators ★ Geometric and topological invariants of elliptic operators. 90k:58206
- Infinite-dimensional Dissipative Systems ★ Attractors, inertial manifolds and their approximation. 90c:58047
- Topological Fixed Point Theory and Applications ★ Topological fixed point theory and applications. 90i:55001
- Contemporary Mathematics ★ Recent developments in geometry. 90i:53002
- ★ Geometric and topological invariants of elliptic operators. 90k:58206
- Differential and integral equations ★ Дифференциальные и интегральные уравнения. (Russian) [Differential and integral equations] 90d:34002
- Dynamical systems: a renewal of mechanism ★ Dynamical systems: a renewal of mechanism. 90i:58038
- Dynamics reported ★ Dynamics reported. Vol. 2. 90a:58041
- Functional-analytic study of generalized functions ★ Чокансүрон но кансү кайсекике кенкү. (Japanese) [Functional-analytic study of generalized functions] 90m:46006
- Geometric and topological invariants of elliptic operators ★ Geometric and topological invariants of elliptic operators. 90k:58206
- Geometry of moduli spaces and 4-dimensional manifolds ★ Модули кукан нокки нан то 4-джен тайотай. II. (Japanese) [Geometry of moduli spaces and 4-dimensional manifolds. II] 90a:32001
- Île d'Oléron ★ Integrable systems and applications. 90i:35002
- Integrable systems and applications ★ Integrable systems and applications. 90i:35002
- Lecture Notes in Mathematics ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- ★ Topological fixed point theory and applications. 90i:55001
- Lecture Notes in Physics ★ Integrable systems and applications. 90i:35002
- Los Angeles, CA ★ Recent developments in geometry. 90i:53002
- Marseille-Luminy ★ Attractors, inertial manifolds and their approximation. 90c:58047
- Meeting:
- Stochastics ★ Stochastic analysis, path integration and dynamics. 90e:60005
- Méthodes topologiques en analyse convexe ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] 90m:47008
- Miniconference:
- Geometry and Physics ★ Miniconference on Geometry and Physics. 90h:00015

- Montreal, PQ ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] 90m:47008
- NATO Advanced Study Institute:
- Variational Methods in Nonlinear Problems ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] 90m:47008
- Nonlinear evolutions ★ Nonlinear evolutions. 90k:00029
- Nonlinear semigroups, partial differential equations and attractors ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- Proceedings:
- Conference on Differential Geometric Methods in Theoretical Physics ★ Proceedings of the XV International Conference on Differential Geometric Methods in Theoretical Physics. 90i:00004
- School on Geometry and Physics ★ Proceedings of the Winter School on Geometry and Physics. 90d:00042
- Qualitative and analytic methods in the dynamics of systems ★ Качественные и аналитические методы в динамике систем. (Russian) [Qualitative and analytic methods in the dynamics of systems] 90a:00011
- Recent developments in geometry ★ Recent developments in geometry. 90i:53002
- Research on complex analytic geometry and related topics ★ Фукусо кайсеки кинангакү то соно шуhen но кенкү. (Japanese) [Research on complex analytic geometry and related topics] 90d:14003
- School:
- Geometry and Physics ★ Proceedings of the Winter School on Geometry and Physics. 90d:00042
- Seminar:
- Geometry of Moduli Spaces and 4-Dimensional Manifolds ★ Модули кукан нокки нан то 4-джен тайотай. II. (Japanese) [Geometry of moduli spaces and 4-dimensional manifolds. II] 90a:32001
- Session:
- Geometry ★ Recent developments in geometry. 90i:53002
- Srni ★ Proceedings of the Winter School on Geometry and Physics. 90d:00042
- Statistical mechanics and the theory of dynamical systems ★ Статистическая механика и теория динамических систем. (Russian) [Statistical mechanics and the theory of dynamical systems] (Not in MR)
- Stochastic analysis, path integration and dynamics ★ Stochastic analysis, path integration and dynamics. 90e:60005
- Symposium:
- Functional-analytic Study of Generalized Functions ★ Чокансүрон но кансү кайсекике кенкү. (Japanese) [Functional-analytic study of generalized functions] 90m:46006
- Nonlinear Semigroups, Partial Differential Equations and Attractors ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- Research on Complex Analytic Geometry and Related Topics ★ Фукусо кайсеки кинангакү то соно шуhen но кенкү. (Japanese) [Research on complex analytic geometry and related topics] 90d:14003
- Theory of Operator Algebras and Index Theory ★ Сайосокан рон то шисү рирон. (Japanese) [Theory of operator algebras and index theory] 90d:46005
- Theory of operator algebras and index theory ★ Сайосокан рон то шисү рирон. (Japanese) [Theory of operator algebras and index theory] 90d:46005
- Tianjin ★ Topological fixed point theory and applications. 90i:55001
- Topological fixed point theory and applications ★ Topological fixed point theory and applications. 90i:55001
- Topological methods in convex analysis ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] 90m:47008
- Warwick ★ Stochastic analysis, path integration and dynamics. 90e:60005
- Washington, DC ★ Nonlinear semigroups, partial differential equations and attractors. 90f:00006
- Workshop:
- Integrable Systems and Applications ★ Integrable systems and applications. 90i:35002
- Nonlinear Evolution Equations and Dynamical Systems ★ Nonlinear evolutions. 90k:00029

58Axx General theory of differentiable manifolds

Items with secondary classifications in 58Axx

- Balint, St. ★ Analiza pe varietăți. (Romanian) [Analysis on manifolds] 90m:58001

58A05 Differentiable manifolds, foundations

- Cromme, L. J. Manifolds with cusps. 90a:58002
- Gago Cousse, Felipe Morse germs in S.D.G. 90a:58002
- Gruszczak, J. (with Heller, Michael; Multarzyński, P.) A generalization of manifolds as space-time models. 90a:58003
- Heller, Michael *see* Gruszczak, J.; et al., 90a:58003
- Kolář, Ivan (with Slovák, Jan) On the geometric functors on manifolds. 90j:58002
- Minguez, M. Carmen Some combinatorial calculus on Lie derivative. (French summary) 90h:58003
- Multarzyński, P. *see* Gruszczak, J.; et al., 90a:58003
- Papuc, Dan I. On the geometry of manifolds with partial orderings (abstract). (see 90d:53002)
- Partial orderings on differentiable manifolds. 90m:58003
- Slovák, Jan *see* Kolář, Ivan, 90j:58002
- Tong Van Da'e Une caractérisation du fibré cotangent. (English summary) [A characterization of the cotangent bundle] 90b:58004
- Items with secondary classifications in 58A05
- Acquistapace, Francesca Essential coverings for differentiable manifolds. (Italian) 90a:57035
- Adelman, Murray (with Kock, Anders) A note on closed ideals in rings of smooth functions. 90d:46100

- Blinz, E. (with Śniatycki, Jędrzej; Fischer, Hans Rudolf) ★ Geometry of classical fields. 90h:58045
- Borceux, F. (with Van den Bossche, G.) An essay on noncommutative topology. 90h:46106
- Doupovec, Miroslav Natural operators transforming vector fields to the second order tangent bundle. (Russian and Czech summaries) 90m:58007
- Fischer, Hans Rudolf see Blinz, E.; et al., 90a:58045
- Gähler, Werner Monads and convergence. 90h:18007
- Hahn, Jörg M. Geometric continuous patch complexes. 90c:68077
- Kock, Anders see Adelman, Murray, 90d:46100
- Papoc, Dan I. On the geometry of a differentiable manifold with a partial ordering (or with a field of tangent cones). 90j:53082
- Pradines, Jean Variétés d'orbites. [Orbit manifolds] 90f:53062
- Śniatycki, Jędrzej see Blinz, E.; et al., 90a:58045
- Tulczyjew, W. M. (with Zakrzewski, Stanisław) Partial categories. (Italian summary) 90h:18001a
- (with Urbanski, P.; Zakrzewski, Stanisław) A pseudocategory of principal bundles. (Italian summary) 90g:55015
- (with Zakrzewski, Stanisław) Composition classes and partial categories. (Italian summary) 90h:18001b
- Urbanski, P. see Tulczyjew, W. M.; et al., 90g:55015
- Van den Bossche, G. see Borceux, F., 90h:46106
- Zakrzewski, Stanisław see Tulczyjew, W. M.; et al., 90g:55015; 90h:18001a and 90h:18001b

58A07 Real-analytic and Nash manifolds [see also 32C05]

Items with secondary classifications in 58A07

- Bochnak, J. (with Coste, M.; Roy, M.-F.) ★ Géométrie algébrique réelle. (French) [Real algebraic geometry] 90h:14030
- (with Kucharz, W.) On real-algebraic models of smooth manifolds. 90a:14029
- Coste, M. see Bochnak, J.; et al., 90h:14030
- Cucker, Felipe Nash functions over real spectra. 90i:14026
- Guaraldo, Francesco Extensions of isomorphisms among analytic or real Nash spaces. (Italian. English summary) 90h:32022
- Kucharz, W. Sums of $2n$ th powers of real meromorphic functions. 90f:14013
- see also Bochnak, J., 90a:14029
- Ramanakrishna, Rodolphe Bezout theorem for Nash functions. 90j:58006
- Roy, M.-F. see Bochnak, J.; et al., 90h:14030
- Shiota, Masahiro Extension et factorisation de fonctions de Nash C^∞ . (English summary) [Extension and factorization of C^∞ Nash functions] 90h:32017
- Yamato, Kazuo Algebraic Riemann manifolds. 90h:53046

58A10 Differential forms

- Chen, Xiu Run see Wang, Ji Chun, 90a:58004
- Mihuc, I. Cochain complexes on fibre bundles. (Romanian summary) 90h:58004
- About differential forms on fibre bundles. 90i:58002
- Differential forms on fibre bundles. 90i:58001
- Ohswa, Takeo A generalization of the Weitzenböck formula and an analytic approach to Morse theory. 90h:58003
- Ongay, Fausto Instantons: physics, geometry and magic. (Spanish) 90c:58005
- Stora, Raymond Differential algebras in field theory and their anomalies: two examples. 90c:58006
- Trenčevski, Kostadin Covariant multiple integrals of tensors and a generalization of Stokes' theorem. 90i:58003
- Tulczyjew, W. M. Cohomology of the Lagrange complex. 90c:58007
- Wang, Ji Chun (with Chen, Xiu Run) Cohomology differential forms, linear models and variational principles. (Chinese. English summary) 90a:58004

Items with secondary classifications in 58A10

- Aomoto, K. Special value of the hypergeometric function ${}_3F_2$ and connection formulae among asymptotic expansions. 90f:33001
- de Azcárraga, J. A. (with Townsend, Paul K.) Superspace geometry and classification of supersymmetric extended objects. 90h:17022
- Benn, I. M. (with Tucker, R. W.) Representing spinors with differential forms. 90f:53030
- Bismut, Jean-Michel (with Bost, Jean-Benoît) Fibrés déterminants, métriques de Quillen et dégénérescence des courbes. (English summary) [Determinant line bundles, Quillen metrics and degenerating curves] 90a:58162
- Bost, Jean-Benoît see Bismut, Jean-Michel, 90a:58162
- Bruzzo, Ugo (with Landi, Giovanni) Simple proof of Weil triviality in supersymmetric gauge theories. 90h:53091
- Cartier, Pierre Jacobiennes généralisées, monodromie unipotente et intégrales itérées. [Generalized Jacobians, unipotent monodromy and iterated integrals] 90d:32024
- Du, Qun Qun (with Guo, Han Ying; Hu, Yao Guang) Gauge anomalies and their cohomological analysis. (Chinese. English summary) 90h:81076
- Dubois-Violette, M. (with Madore, J.; Kerner, R.) Gauge bosons in a noncommutative geometry. 90c:81107
- Gaudfroy, Alain Sur les sources antibruit. (English summary) [On antinoise systems] 90c:58196
- Ginzburg, V. L. Closed characteristics of 2-forms. 90f:58059
- Gol'dshein, V. M. (with Kuz'minov, V. I.; Shvedov, I. A.) Normal and compact solvability of linear operators. 90h:47002
- Guo, Han Ying see Du, Qun Qun; et al., 90h:81076
- Hector, Gilbert see Saralegi Aranguren, Martin, 90a:58007
- Henneaux, Marc Duality theorems in BRST cohomology. 90k:17042
- (with Waelbroeck, Henri) Coupling of p -forms to backgrounds through BRST techniques. 90k:81209
- Ha, Yao Guang see Du, Qun Qun; et al., 90h:81076
- Kerner, R. see Dubois-Violette, M.; et al., 90c:81107
- Kuz'minov, V. I. see Gol'dshein, V. M.; et al., 90h:47002

- Landi, Giovanni see Bruzzo, Ugo, 90h:53091
- Madore, J. see Dubois-Violette, M.; et al., 90c:81107
- Michor, Peter W. Graded derivations of the algebra of differential forms associated with a connection. 90m:53045
- Okassa, Engène Relevements des structures symplectiques et pseudo-Riemanniennes à des variétés de points proches. [Liftings of symplectic and pseudo-Riemannian structures to manifolds of near points] 90k:53067
- Periwal, Vipul The renormalization flow, spaces of two-dimensional field theories, and Connes' geometry. 90f:81051
- Rummler, Hansklaus Differential forms, Weitzenböck formulae and foliations. 90m:53049
- Saralegi Aranguren, Martin (with Hector, Gilbert) Formes différentielles d'intersection: un théorème de de Rham pour l'homologie d'intersection des préstratifications abstraites. (English summary) [Differential forms and intersection homology: a de Rham-type theorem for intersection homology on abstract prestratifications] 90a:58007
- Save'ev, I. V. Polyhedra and algebraic sets. 90h:55035
- Schickelanz, H. On derivations and cohomology of the graded Lie algebra of vector valued differential forms related to a smooth manifold. 90d:17019
- Shvedov, I. A. see Gol'dshein, V. M.; et al., 90h:47002
- Townsend, Paul K. see de Azcárraga, J. A., 90h:17022
- Tucker, R. W. see Benn, I. M., 90f:53030
- Waelbroeck, Henri see Henneaux, Marc, 90k:81209
- Wene, G. P. The Clifford algebra of an infinite-dimensional space. 90h:15024

58A12 de Rham theory [see also 14Fxx]

- Alvarez López, Jesús A. Duality in the spectral sequence of Riemannian foliations. 90k:58004
- van Baal, Pierre see Ouvry, Stéphane; et al., 90c:58008
- Baudieu, Laurent (with Singer, I. M.) Topological Yang-Mills symmetry. 90f:58004
- Ouvry, Stéphane (with Stora, Raymond; van Baal, Pierre) On the algebraic characterization of Witten's topological Yang-Mills theory. 90c:58008
- Singer, I. M. see Baudieu, Laurent, 90f:58004
- Stora, Raymond see Ouvry, Stéphane; et al., 90c:58008

Items with secondary classifications in 58A12

- Asada, Akira Monodromy of a differential equation having a quadratic nonlinear term. 90h:58007
- Remarks on the relations between nonabelian de Rham theories with respect to G and ΩG . 90i:55014
- Bott, Raoul On induced representations. 90c:22001
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- Kobayashi, Yuji (with Nagamachi, S.) Eigenvalues and characteristic functions of supermatrices. (see 90c:20002)
- Manin, Yu. I. see Voronov, A. A. 90c:32037
- Martellini, M. (with Teofilatto, Paolo) Global structure of the superstring partition function and resolution of the supermoduli measure ambiguity. 90c:81204
- Matsumoto, Shuji (with Uehara, S.; Yasui, Yukinori) Hadamard model on the super Riemann surface. 90a:58183
- McHugh, Andrew A Newlander-Nirenberg theorem for supermanifolds. 90c:32013
- Mezincescu, L. (with Nepomechie, Rafael I.; Zachos, Cosmas K.) (Super)conformal algebra on the (super)torus. 90c:17029
- Mkrtchyan, R. L. see Khadaverdyan, O. M. 90i:58004
- Morozov, A. Yu. The two-loop superstring partition function. 90b:81137
- Musto, R. see Cristofano, G.; et al. 90c:81123
- Myung, Y. S. $N = 2$ twisted supermodular transformation on a supertorus. 90a:32028
- Nagamachi, S. see Kobayashi, Yuji. (90c:20002)
- Nakayama, R. see Grundberg, J. 90b:81127
- Natanzon, S. M. The topological type and moduli of Riemannian and Kleinian supersurfaces. (Russian. English summary) 90b:32045
- Nepomechie, Rafael I. see Mezincescu, L.; et al. 90c:17029
- Nicodemi, F. see Cristofano, G.; et al. 90c:81123
- Pettorino, R. see Cristofano, G.; et al. 90c:81123
- Rogers, Alice Path integration in superspace. 90a:58023
- Roslyi, A. A. (with Shvarts, A. S.; Voronov, A. A.) Superconformal geometry and string theory. 90b:58274
- Sánchez Valenzuela, Oscar Adolfo see Boyer, C. P. 90d:58023
- Semikhatov, A. M. Bosonization, τ -functions and operator formalism on Riemann surfaces. 90d:81118
- Sewing bc theories on Riemann surfaces in a bosonic operator formalism. 90d:81119
- Shvarts, A. S. see Roslyi, A. A.; et al. 90b:58274
- Susperregui Lesaca, Julian Fitting invariants for modules over anticommutative graded rings. 90b:16006
- Takao, Masaru see Hamada, Ken-Ji. 90c:81185
- Teofilatto, Paolo see Martellini, M. 90c:81204
- Uehara, S. (with Yasui, Yukinori) Super Beltrami differentials via 2D supergravity. 90c:32025
- see also Matsumoto, Shuji; et al. 90a:58183
- Vaintrob, A. Yu. Deformations of complex superspaces and of the coherent sheaves on them. (Russian) 90b:32049
- Voronov, A. A. (with Manin, Yu. I.) Supercellular partitions of flag superspaces. (Russian) 90c:32037
- see also Roslyi, A. A.; et al. 90b:58274
- Witten, Edward Free fermions on an algebraic curve. 90j:14042
- Yasui, Yukinori see Matsumoto, Shuji; et al. 90a:58183 and Uehara, S. 90c:32025
- Zachos, Cosmas K. see Mezincescu, L.; et al. 90c:17029

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- Asada, Akira Monodromy of a differential equation having a quadratic nonlinear term. 90c:58007
- Coleman, Robert Alan (with Korte, Herbert) All directing fields that are polynomial in the $(n-1)$ velocity are geodesic. 90b:58016
- Kolář, Ivan On the natural operators on vector fields. 90b:58017
- Korte, Herbert see Coleman, Robert Alan. 90b:58016
- Items with secondary classifications in 58A99
- Aikou, Tadashi On infinitesimal automorphisms of $D(\text{GL}(n, \mathbb{R}))$ -structures on tangent bundles. 90g:53038
- Aoki, Toshihiko (with Pak, Jin Suk; Yorozu, S.) L^2 -vector fields on a noncompact Riemannian manifold with boundary. 90i:53044
- Betsunes, David The geometry of gauge-particle field interaction: a generalization of Utiyama's theorem. 90j:53095
- Carliena, José F. (with López Lacasta, Carlos; Martínez, Eduardo) A geometric characterization of Lagrangian second-order differential equations. 90m:58063
- (with López Lacasta, Carlos; Martínez, Eduardo) A new approach to the converse of Noether's theorem. 90i:58043
- Corach, Gustavo (with Porta, Horacio) Total curvature of nondifferentiable curves. 90c:53064
- Drager, Lance D. (with Foote, Robert L.; Martin, Clyde Franklin; Wolper, James) Controllability of linear systems, differential geometry curves in Grassmannians and generalized Grassmannians, and Riccati equations. 90j:93037
- Edelen, Dominic G. B. Material and spatial gauge theories of solids. II. Problems with given material dislocation densities. 90i:73010b
- Material and spatial gauge theories of solids. III. Dynamics of disclination free states. 90i:73010c
- see also Lagoudas, Dimitris C. 90i:73010a
- Foote, Robert L. see Drager, Lance D.; et al. 90j:93037
- Gago Couso, Felipe Internal weak opens, stability and Morse theory for synthetic germs. (Not in MR)
- Khan, I. S. see Petrov, Nikolai Nikolaevich. 90c:58203
- Kock, Anders Generalized fibre bundles. 90c:18009
- On the integration theorem for Lie groupoids. 90j:20124
- Lagoudas, Dimitris C. (with Edelen, Dominic G. B.) Material and spatial gauge theories of solids. I. Gauge constructs, geometry, and kinematics. 90i:73010a
- López Lacasta, Carlos see Carliena, José F.; et al. 90i:58043 and 90m:58063

- Martin, Clyde Franklin see Drager, Lance D.; et al. 90j:93037
- Martínez, Eduardo see Carliena, José F.; et al. 90i:58043 and 90m:58063
- Pak, Jin Suk see Aoki, Toshihiko; et al. 90i:53044
- Petrov, Nikolai Nikolaevich (with Khan, I. S.) Limit sets for trajectories of dynamical polysystems. 90c:58203
- Porta, Horacio see Corach, Gustavo. 90c:53064
- Reich, Sebastian Algebroidifferentialgleichungen und Vektorfelder auf Mannigfaltigkeiten. [Algebroid differential equations and vector fields on manifolds] 90j:58136
- Rodríguez, João P. (with van Tonder, A. J.) Spin structures for Riemann surfaces with boundaries and cross-caps. 90c:53082
- Rudakov, A. N. Lie algebras of vector fields, and differential operators on vector bundles. (Russian) 90b:17027
- Tatarinov, Ya. V. Universal characteristic function and the moving frame method in the dynamics of systems with nonintegrable constraints. (Russian) 90j:70023
- van Tonder, A. J. see Rodríguez, João P. 90c:53082
- Wolper, James see Drager, Lance D.; et al. 90j:93037
- Woronowicz, S. L. Differential calculus on compact matrix pseudogroups (quantum groups). 90g:58010
- Yorozu, S. see Aoki, Toshihiko; et al. 90i:53044

58Bxx Infinite-dimensional manifolds

58B05 Homotopy and topological questions

- Kusnoka, Shigeo Degree theorem in certain Wiener Riemannian manifolds. 90c:58017
- Items with secondary classifications in 58B05
- Bowick, Mark J. The geometry of string theory. 90j:81171
- Church, P. T. (with Timourian, J. G.) Critical values of Fredholm maps. 90c:58027
- Deundyak, V. M. Homotopy properties of a space of invertible matrix one-dimensional singular operators with piecewise continuous coefficients. (Russian. English and Georgian summaries) 90m:58209
- Fomenko, V. T. see Kolegaeva, E. M. 90g:53074
- Jaffe, Arthur Heat kernel regularization and infinite-dimensional analysis. 90m:58202
- Kolegaeva, E. M. (with Fomenko, V. T.) Continuation of infinitesimal bendings of surfaces to analytic bendings under external constraints. 90g:53074
- Kryszewski, W. (with Przeradzki, B.; Wreński, S.) Remarks on approximation methods in degree theory. 90b:47098
- Porta, Horacio (with Recht, Lázaro) Spaces of projections in a Banach algebra. (Spanish summary) 90a:46189
- Przeradzki, B. see Kryszewski, W.; et al. 90b:47098
- Radu, F. Applications et morphismes de fibrés vectoriels avec structures particulières. [Mappings and morphisms of vector bundles with particular structures] 90i:55030
- Recht, Lázaro see Porta, Horacio. 90a:46189
- Sakai, Katsuro (with Wong, Raymond Y.) The space of Lipschitz maps from a compactum to a locally convex set. 90j:57013
- A function space triple of a compact polyhedron into an open set in Euclidean space. 90d:57021
- Taubes, Clifford Henry The stable topology of self-dual moduli spaces. 90f:58023
- Timourian, J. G. see Church, P. T. 90c:58027
- Wreński, S. see Kryszewski, W.; et al. 90b:47098
- Wong, Raymond Y. see Sakai, Katsuro. 90j:57013

58B10 Differentiability questions

- Items with secondary classifications in 58B10
- Ba, Boubakar (with Diallo, Mamadou Hassimiou) Caractérisation des fibrés vectoriels de classe C^r . (English summary) [Characterization of C^r -vector bundles] 90d:57032
- Diallo, Mamadou Hassimiou see Ba, Boubakar. 90d:57032

58B12 Questions of holomorphy [see also 32-XX, 46G20]

- Items with secondary classifications in 58B12
- Hervé, Michel Analyticity in infinite-dimensional spaces. 90f:46074
- Kuczumow, T. (with Ray, William O.) Isometries in the Cartesian product of n unit open Hilbert balls with a hyperbolic metric. 90c:47104
- Ray, William O. see Kuczumow, T. 90c:47104

58B15 Fredholm structures [see also 47A53]

- Connes, Alain Trace de Dixmier, modules de Fredholm et géométrie riemannienne. [Dixmier trace, Fredholm modules and Riemannian geometry] 90d:58014
- Khimshiashvili, G. N. Noncommutative functional calculus and the Fredholm theory of operator PI-algebras. (Russian) 90c:58018
- Terng, Chuo-Lian Proper Fredholm submanifolds of Hilbert space. 90c:58006
- Vasilescu, F.-H. Homogeneous operators and essential complexes. 90m:58011
- Items with secondary classifications in 58B15
- Borisovich, Yu. G. Global analysis and solvability of nonlinear boundary value problems. (Russian) 90m:58022
- Church, P. T. (with Timourian, J. G.) Critical values of Fredholm maps. 90c:58027
- Connes, Alain Entire cyclic cohomology of Banach algebras and characters of θ -summable Fredholm modules. 90c:46094
- (with Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] 90c:58174
- Compact metric spaces, Fredholm modules, and hyperfiniteness. 90i:46124
- Fox, Jeff (with Haskell, Peter) A new proof of the K -amenability of $SU(1, 1)$. 90a:46180

- Haskell, Peter *see* Fox, Jeff, 90a:46180
 Jaffe, Arthur (with Lesniewski, Andrzej) Supersymmetric quantum fields and infinite-dimensional analysis. 90k:81104
 Karoubi, Max *see* Connes, Alain, 90c:58174
 Kastler, Daniel Introduction to Alain Connes' noncommutative differential geometry. 90m:58014
 Kim, Soon Kyu (with Wang, Ti Xiang) The generalized Morse lemma and the Euler characteristic on Banach manifolds. 90h:58012
 Lesniewski, Andrzej *see* Jaffe, Arthur, 90k:81104
 Morimoto, Hiroshi A theory of infinite-dimensional cycles for Dirac operators. 90j:58142
 Palais, Richard S. (with Terng, Chuu-Lian) ★ Critical point theory and submanifold geometry. 90c:53143
 Palmer, John Pfaffian bundles and the Ising model. 90b:82071
 Sharipov, F. *see* Zhurav, Ya. I., 90g:58129
 Terng, Chuu-Lian *see* Palais, Richard S., 90c:53143
 Thomsen, Klaus ★ Hilbert C^* -modules, KK -theory and C^* -extensions. 90c:46070
 Timourian, J. G. *see* Church, P. T., 90c:58027
 Wang, Ti Xiang *see* Kim, Soon Kyu, 90h:58012
 Zhang, Haitao Fredholm theory for morphisms in quotient Banach spaces. 90g:47021
 Zhurav, Ya. I. (with Sharipov, F.) On the index of a Fredholm operator in a Hilbert C^* -module. (Russian) 90g:58129

58B20 Riemannian, Finsler and other geometric structures [see also 53C20, 53C60]

- Crucianu, V. Courbes remarquables sur les variétés riemanniennes, modélées par un espace de Hilbert. [Remarkable curves on Riemannian manifolds modelled by a Hilbert space] 90k:58009
 Ermakov, Ya. I. The Killing equation for a Riemannian-Hilbert manifold. (Russian) 90c:58019
 Hirimac, Dragos Infinite-dimensional Lagrange spaces. 90k:58010
 — The generalized Legendre transformation. 90k:58011
 Pekonen, Osmo ★ Contributions to and a survey on moduli spaces of differential geometric structures with applications in physics. 90f:58012
 — On the Kähler geometry of the Hilbert-Schmidt Grassmannian. 90d:58015
 Schmidke, William B. (with Vokos, Stamatis P.) Geometric structures of super- $(\text{Diff}(S^1)/S^1)$. 90c:58020
 Vokos, Stamatis P. *see* Schmidke, William B., 90c:58020

Items with secondary classifications in 58B20

- Arai, Asao Path integral representation of the index of Kähler-Dirac operators on an infinite-dimensional manifold. 90e:58146
 Arakelyan, T. A. (with Savvidi, G. K.) Geometry of a group of area-preserving diffeomorphisms. 90g:58011
 Bismut, Jean-Michel Filtering equation, equivariant cohomology and the Chern character. 90c:58172
 Deville, Robert Geometrical implications of the existence of very smooth bump functions in Banach spaces. 90m:46023
 Driver, Bruce K. Classifications of bundle connection pairs by parallel translation and lassos. 90h:58033
 Gravesen, Jens Complex structures in the Nash-Moser category. 90k:32070
 Groisser, D. (with Parker, Thomas H.) The geometry of the Yang-Mills moduli space for definite manifolds. 90f:58021
 — The geometry of the moduli space of CP^2 instantons. 90m:58023
 Iams, Stere On differential geometry of the dual of a vector bundle. 90j:53047
 Jaffe, Arthur (with Lesniewski, Andrzej; Osterwalder, Konrad) Quantum K -theory. I. The Chern character. 90a:58170
 Lesniewski, Andrzej *see* Jaffe, Arthur, et al., 90a:58170
 Li, Miao Holomorphic structure of closed strings: left-moving sector. 90a:58020
 Osterwalder, Konrad *see* Jaffe, Arthur, et al., 90a:58170
 Parker, Thomas H. *see* Groisser, D., 90f:58021
 Savvidi, G. K. *see* Arakelyan, T. A., 90g:58011
 Sevrin, A. (with Troost, W.; Van Proeyen, A.; Spindel, Ph.) Extended supersymmetric σ -models on group manifolds. II. Current algebras. 90f:81044
 Spindel, Ph. *see* Sevrin, A.; et al., 90f:81044
 Troost, W. *see* Sevrin, A.; et al., 90f:81044
 Van Proeyen, A. *see* Sevrin, A.; et al., 90f:81044
 Wang, Ti Xiang Accretive operators and differential inclusion in Banach manifolds. 90k:58030

58B25 Group structures and generalizations on infinite-dimensional manifolds [see also 22E65, 58D05]

- Abbati, M. C. (with Cirelli, R.; Manià, A.; Michor, Peter W.) The Lie group of automorphisms of a principal bundle. 90m:58012
 Abramov, Viktor Anatolevich Generalized BRST supersymmetries. (Russian. English summary) 90d:58016
 Anderson, Mitch Strongly differentiable monoids with smooth boundary. 90j:58005
 Cirelli, R. *see* Abbati, M. C.; et al., 90m:58012
 Coquereaux, R. (with Pilch, K.) String structures on loop bundles. 90k:58012
 Khasmetdinova, N. S. Homomorphisms of infinite-dimensional Lie groups. (Russian) (see 90m:00040)
 Manià, A. *see* Abbati, M. C.; et al., 90m:58012
 Michor, Peter W. *see* Abbati, M. C.; et al., 90m:58012
 Mickelsson, J. Commutator anomalies and the Fock bundle. 90m:58013
 Pilch, K. *see* Coquereaux, R., 90k:58012

Items with secondary classifications in 58B25

- Asada, Akira Remarks on the relations between nonabelian de Rham theories with respect to G and ΩG . 90f:55014

- Atkin, C. J. The Finsler geometry of certain covering groups of operator groups. 90f:22023
 Bragiel, Kazimierz The twisted $SU(3)$ group. Irreducible \ast -representations of the C^* -algebra $C(S_3U(3))$. 90c:22020
 Budzyński, Robert J. (with Klimek, Sławomir; Sadowski, Paweł) The group of local biholomorphisms of C^1 and conformal field theory in the operator formalism. 90d:32048
 Carey, A. L. (with Palmer, John) Infinite complex spin groups. 90c:22032
 Duncan, T. E. Brownian motion and affine Lie algebras. 90f:17026
 Holmes, J. P. One parameter subsemigroups in locally compact differentiable semigroups. 90f:22002
 Klimek, Sławomir *see* Budzyński, Robert J.; et al., 90d:32048
 Lafferty, John D. The density manifold and configuration space quantization. 90g:58042
 McArthur, I. N. A homogeneous superspace relevant to superconformal field theory. 90b:81135
 Mokhov, O. I. Canonical variables for two-dimensional vortical hydrodynamics of an incompressible fluid. 90d:76022
 Ofshanski, G. I. The method of holomorphic extensions in the theory of unitary representations of infinite-dimensional classical groups. 90f:22025
 Palmer, John A Grassmann calculus for infinite spin groups. 90m:82003
 — Pfaffian bundles and the Ising model. 90b:82071
 — *see also* Carey, A. L., 90c:22032
 Sadowski, Paweł *see* Budzyński, Robert J.; et al., 90d:32048
 Woronowicz, S. L. Tannaka-Krein duality for compact matrix pseudogroups. Twisted $SU(N)$ groups. 90c:22033
 — Differential calculus on compact matrix pseudogroups (quantum groups). 90g:58010

58B99 None of the above, but in this section

- Kastler, Daniel Introduction to Alain Connes' noncommutative differential geometry. 90m:58014

Items with secondary classifications in 58B99

- Abbasov, A. G. Quasiruled homology and the degree of a quasiruled mapping. (Russian. English and Azerbaijani summaries) 90a:55010
 Amari, Shun-ichi Dual connections on the Hilbert bundles of statistical models. 90i:62041
 Andrushch, Esteban (with Stojanoff, Demetrio) Differentiable structure of similarity orbits. 90k:47040
 Bogachev, V. I. (with Prostov, Yu. I.) Polynomial diffeomorphism of a ball without invariant measures. (Russian) 90k:58110
 Bona, J. L. *see* Santos, Manuel S., 90k:90032
 Borisovich, Yu. G. A modern approach to the theory of topological characteristics of nonlinear operators. II. (Russian) 90j:58013
 Busenber, Stavros *see* Martelli, Mario, 90k:52025
 Caraman, Petru Quasiconformal mappings between infinite-dimensional manifolds in normed spaces. (Polish summary) 90c:30033
 Fomenko, V. T. *see* Kolegava, E. M., 90g:53074
 Gawędziński, Krzysztof Topological actions in two-dimensional quantum field theories. 90i:81122
 Grin', A. N. On an expansion of a strongly degenerate mapping. (Russian) 90j:58020
 Heil, Alions Anton (with Kersch, A.; Papadopoulos, N. A.; Reifenhäuser, B.; Scheck, F.; Vogel, Helmut) Anomalies from the point of view of G -theory. 90m:58215
 Kersch, A. *see* Heil, Alions Anton; et al., 90m:58215
 Kolegava, E. M. (with Fomenko, V. T.) Continuation of infinitesimal bendings of surfaces to analytic bendings under external constraints. 90g:53074
 Martelli, Mario (with Busenber, Stavros) Periods of Lipschitz functions and lengths of closed curves. 90k:52025
 Mickelsson, J. ★ Current algebras and groups. 90m:22044
 Niemi, Antti J. Quantum holonomy. 90k:81077
 Papadopoulos, N. A. *see* Heil, Alions Anton; et al., 90m:58215
 Prostov, Yu. I. *see* Bogachev, V. I., 90k:58110
 Reifenhäuser, B. *see* Heil, Alions Anton; et al., 90m:58215
 Rubin, Matatyahu On the reconstruction of topological spaces from their groups of homeomorphisms. 90g:54044
 Sakai, Katsuro (with Wong, Raymond Y.) On infinite-dimensional manifold triples. 90g:57017
 Santos, Manuel S. (with Bona, J. L.) On the structure of the equilibrium price set of overlapping-generations economies. 90k:90032
 Scheck, F. *see* Heil, Alions Anton; et al., 90m:58215
 Semenov, Gordon W. Quantum adiabatic phases, effective actions and anomalies. 90m:81035
 Stojanoff, Demetrio *see* Andrushch, Esteban, 90k:47040
 Turaev, V. G. Euler structures, nonsingular vector fields, and Reidemeister-type torsions. 90m:57021
 Vogel, Helmut *see* Heil, Alions Anton; et al., 90m:58215
 Wong, Raymond Y. *see* Sakai, Katsuro, 90g:57017

58Cxx Calculus on manifolds; nonlinear operators [see also 47Hxx]

Items with secondary classifications in 58Cxx

- Balint, Șt. ★ Analiza pe varietăți. (Romanian) [Analysis on manifolds] 90m:58001

58C05 Real-valued functions

- Ramanakorainina, Rodolphe Bezout theorem for Nash functions. 90j:58006

Items with secondary classifications in 58C05

- Adelman, Murray (with Kock, Anders) A note on closed ideals in rings of smooth functions. 90d:46100

- Geisler, Michael H. G. Morrey-Campanato spaces on manifolds. 90a:46073
 Gohkman, A. O. Smooth symmetric functions. 90b:26017
 Kock, Anders. *see* Adams, Murray, 90d:46100
 Marini, Antonella. On the extension of a Yang-Mills field, from the exterior of a ball in \mathbb{R}^3 to its compactification. (Italian summary) 90e:58025
 Ramanakrishna, Rodolphe. Complexité des fonctions de Nash. (English summary) [Complexity of Nash functions] 90e:32008
 Verma, Maria Elena. On the differentiability of convex functions. 90j:58008

58C06 Set valued and function-space valued mappings

- Georgiev, Peter Georgiev. Submonotone mappings in Banach spaces and differentiability of nonconvex functions. 90k:58013

Items with secondary classifications in 58C06

- Berens, H. (with Finzel, M.). A continuous selection of the metric projection in matrix spaces. 90i:41040
 Bezhaev, A. Yu. Splines on manifolds. 90b:65013
 Bogachev, V. I. (with Prostor, Yu. I.). Polynomial diffeomorphism of a ball without invariant measures. (Russian) 90k:58110
 Deutsch, Frank. An exposition of recent results on continuous metric selections. 90i:41043
 Finzel, M. *see* Berens, H., 90i:41040
 Frankowska, Halina. High order inverse function theorems. 90k:58015
 Hess, Christian. Measurability and integrability of the weak upper limit of a sequence of multifunctions. 90h:90186
 Kilmer, V. S. On the problem of periodic solutions of operator differential inclusions. 90h:47109
 Lee, Sung J. (with Nashed, M. Z.). Differential inclusions, linear selections, and an optimal control problem. 90g:49028
 Nashed, M. Z. *see* Lee, Sung J., 90g:49028
 Prostor, Yu. I. *see* Bogachev, V. I., 90k:58110
 Zajtz, Andrzej. On the order of natural differential operators and liftings. 90c:58012

58C07 Continuity properties of mappings

Items with secondary classifications in 58C07

- Zajtz, Andrzej. On the order of natural differential operators and liftings. 90c:58012

58C10 Holomorphic maps [see also 32-XX]

Items with secondary classifications in 58C10

- Ball, Joseph A. (with Foias, Ciprian; Helton, J. W.; Tannenbaum, Allen). A Poincaré-Dulac approach to a nonlinear Beurling-Lax-Halmos theorem. 90h:47112
 Flexor, Marguerite (with Sentenac, Pierrette). Algorithmes de Newton généralisés. (English summary) [Generalized Newton algorithms] 90d:30076
 Foias, Ciprian. *see* Ball, Joseph A.; et al., 90h:47112
 Helton, Maurice. A theorem of Wolff-Denjoy type. 90d:30077
 Helton, J. W. *see* Ball, Joseph A.; et al., 90h:47112
 Sentenac, Pierrette. *see* Flexor, Marguerite, 90d:30076
 Shah, Michael. On the distance to the zero set of a homogeneous polynomial. 90k:12004
 Tannenbaum, Allen. *see* Ball, Joseph A.; et al., 90h:47112
 Włodarczyk, Kazimierz. The angular derivative of Fréchet-holomorphic maps in J^* -algebras and complex Hilbert spaces. 90e:46066

58C15 Implicit function theorems; global Newton methods

- Cristea, Mihai. Inverse function theorem without assuming continuous differentiability. 90c:58021
 — Local inversion theorems without assuming continuous differentiability. 90k:58014
 Frankowska, Halina. High order inverse function theorems. 90k:58015
 Jepson, A. D. (with Spence, A.). On a reduction process for nonlinear equations. 90b:58018
 Kassay, G. (with Kolumbán, Istif). Implicit function theorems for monotone mappings. 90c:58022
 Kolumbán, Istif. *see* Kassay, G., 90c:58022
 Langenbach, A. Über lipschitzstetige implizite Funktionen. (English and Russian summaries) [On Lipschitz-continuous implicit functions] 90j:58007
 McGee, Richard. A note on the Moser-Hald variation of Newton's method. 90m:58015
 Rădulescu, Marius. *see* Rădulescu, S., 90d:58017
 Rădulescu, S. (with Rădulescu, Marius). Global univalence and global inversion theorems in Banach spaces. 90d:58017
 Sadyrhanov, R. S. Local and global implicit function theorems for equations with singularities. 90i:58008
 Spence, A. *see* Jepson, A. D., 90b:58018

Items with secondary classifications in 58C15

- Babadzhanyan, A. A. Some applications of "constructivity" in the fixed-point theorem. (Russian. Armenian summary) 90m:65121
 Bank, Randolph E. (with Mittelman, H. D.). Stepsize selection in continuation procedures and damped Newton's method. 90i:65093
 Bartsh, M. Ya. (with Shakhno, S. M.). The Newton method with accelerated convergence. (Russian) 90f:65086
 Cromme, L. J. Manifolds with cusps. 90k:58002
 Dancs, Stephan. Iterative processes and open mapping theorems. 90i:54033
 Findley, David F. Semireflexive spaces in which the theorem on the derivative-of-the-inverse fails for Fréchet derivatives. 90j:46005
 Franchi, Bruno (with Serapioni, R.). Pointwise estimates for a class of strongly degenerate elliptic operators: a geometrical approach. 90e:35076
 Goudin, Daniel. Problèmes de Cauchy hyperboliques nonlinéaires. (English summary) [Nonlinear hyperbolic Cauchy problems] 90e:35111

- Une classe d'opérateurs faiblement hyperboliques non linéaires. (English summary) [A class of weakly hyperbolic nonlinear operators] 90e:35112
 Hussain, Tagdir. *see* Tarafdar, E., 90a:35154
 Jongen, H. T. (with Jonker, P.; Twilt, F.). The continuous, desingularized Newton method for meromorphic functions. 90b:58232
 Jonker, P. *see* Jongen, H. T.; et al., 90b:58232
 Korman, Philip. On existence of solutions for two classes of nonlinear problems. 90d:35020
 Li, Zhi Ping. Periodic solutions of singularly perturbed parabolic equations. (Chinese) 90b:35020
 Liu, Kun Kun. *see* You, Zhao Yong, 90g:65081
 McLeod, J. B. (with Peletier, L. A.). Observations on Moser's inequality. 90d:26029
 Mittelman, H. D. *see* Bank, Randolph E., 90i:65093
 Moret, Igor. A Kantorovich-type theorem for inexact Newton methods. 90b:65109
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 O'Regan, D. A note on the application of topological transversality to nonlinear differential equations in Hilbert spaces. 90c:34116
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- Bogachev, V. I. (with Shkarin, S. A.). Differentiable and Lipschitz mappings of Banach spaces. 90b:58019
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- El Abdouni, B. (with Thibault, L.) Quasi-interiorly ϵ -tangent cones to multifunctions. 90i:90117
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- Fitzpatrick, Simon see de Barra, G.; et al., 90i:46084
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- Ioffe, Alexandre D. Approximate subdifferentials and applications. III. The metric theory. 90g:49012
- Jofré, A. (with Thibault, L.) D -representation of subdifferentials of directionally Lipschitz functions. 90m:56302
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- Kusraev, A. G. (with Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] 90e:46003
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- Marwaha, Archana see Dayal, Sahel, 90m:46075
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- Bruno, Oscar P. Three problems concerning ideals of differentiable functions. 90e:58025
- Bunge, Marta (with Gago Couso, Felipe) Synthetic aspects of C^∞ -mappings. II. Mather's theorem for infinitesimally represented germs. 90b:58022
- Gago Couso, Felipe see Bunge, Marta, 90b:58022
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- Frisch, H. L. (with Borzi, C.; Ord, G.; Percus, J. K.; Williams, G. O.) Approximate representation of functions of several variables in terms of functions of one variable. 90f:26014
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- Zyagin, V. G. Properness of elliptic and parabolic differential operators. (Russian) 90k:58224

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- Ikromov, I. A. Invariant estimates for oscillatory integrals. (Russian) 90j:58010
- Jaworski, Piotr Decompositions of parabolic singularities. (French summary) 90a:58013
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- Kolke, Satoshi C^0 -sufficiency of jets via blowing-up. 90b:58024
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- Urbina, A. M. (with Barrón, R.; León de la Barra, M.; León de la Barra, G.) On a theorem of finite determination in \mathbb{R}^3 . (Spanish. English summary) 90f:58017
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- Delort, J.-M. Conormalité des ondes semi-linéaires le long des caustiques. [Conormality of semilinear waves along caustic surfaces] 90j:58149
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- Doibilia, N. P. (with Sedrakyan, A. G.; Shtan'ko, M. A.; Shtogrin, M. I.) Topology of a family of parametrizations of two-dimensional cycles arising in the three-dimensional Ising model. 90e:82097
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- Janezko, Stanisław (with Kowalczyk, Adam) Stability criteria and classification of singularities for equivariant Lagrangian submanifolds. 90c:58056
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- Cowell, R. G. (with Wright, F. J.) CATFACT: computer algebraic tools for applications of catastrophe theory. (see 90i:68007)
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- Chien, Cheng Sheng see Allgower, E. L.; et al., 90i:58145
- Coffman, C. V. Nonlinear elliptic boundary value problems: Lyusternik-Schnirelman theory, nodal properties and Morse index. 90i:35103
- Constantin, P. (with Foias, Ciprian; Nicolaenko, Basil; Temam, R.) Spectral barriers and inertial manifolds for dissipative partial differential equations. 90i:35234
- Davies, Brian (with Gutkin, E.) Intertwining operators and the quantum inverse method for the nonlinear Schrödinger equation. 90c:81168
- Foias, Ciprian see Constantin, P.; et al., 90i:35234
- Fortunato, Donato see Benci, Vieri, 90c:35074
- Georg, K. see Allgower, E. L.; et al., 90i:58145
- Gutkin, E. see Davies, Brian, 90c:81168
- Karpushkin, V. N. Topology of zeros of eigenfunctions. (Russian) 90k:58238
- Li, Yan Yan Degree theory for second order nonlinear elliptic operators and its applications. 90i:58022
- Lia, Wen Wei (with Lutzer, Gerhard) An application of the homotopy method to the generalised symmetric eigenvalue problem. 90a:65086
- Lupo, D. see Capozzi, A.; et al., 90c:35086
- Lutzer, Gerhard see Lia, Wen Wei, 90a:65086
- Machinek, A. K. (with Troger, H.) Post-buckling of elastic annular plates at multiple eigenvalues. 90c:73057
- Mei, Zhen see Böhmer, K., 90c:58082
- Nicolaenko, Basil see Constantin, P.; et al., 90i:35234
- Pascali, Dan Nonlinear variational eigenvalue inclusions. 90j:58024
- Solimini, Sergio see Capozzi, A.; et al., 90c:35086
- Stuart, Charles A. The behaviour of branches of solutions of nonlinear eigenvalue problems. (Italian summary) 90b:58042
- Szulkin, Andrzej Lyusternik-Schnirelman theory on C^1 -manifolds. (French summary) 90a:58027
- Temam, R. see Constantin, P.; et al., 90i:35234
- Troger, H. see Machinek, A. K., 90c:73057
- Werner, Bodo Computational methods for bifurcation problems with symmetries and applications to steady states of n -box reaction-diffusion models. 90g:58094

58C50 Analysis on supermanifolds or graded manifolds

- Bershadskii, M. A. Super-Riemann surfaces, loop measure, etc. 90b:58029
- Boyer, C. P. (with Sánchez Valenzuela, Oscar Adolfo) Some problems of elementary calculus in superdomains (with a survey on the theory of supermanifolds). 90d:58023
- Bruzzo, Ugo Global Utiyama's theorem in curved superspace. 90j:58016
- Fatya, B. W. (with Kostelecký, V. Alan; Traux, D. Rodney) Grassmann-valued fluid dynamics. 90j:58017
- Khrennikov, A. Yu. Superanalysis: theory of generalized functions and pseudodifferential operators. (Russian. English summary) 90f:58019b
- Functional superanalysis. 90f:58019a
- Kostelecký, V. Alan see Fatya, B. W.; et al., 90j:58017
- Kitayev, D. V. Functional integral and the Feynman-Kac formula in superspace. 90j:58018
- Sánchez Valenzuela, Oscar Adolfo see Boyer, C. P., 90d:58023
- Traux, D. Rodney see Fatya, B. W.; et al., 90j:58017

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- Abramov, Viktor Anatol'evich Formal geometry and a BRST-invariant Lagrangian. (Russian. English summary) 90k:58058
- Bartocci, Claudio (with Bruzzo, Ugo; Landi, Giovanni) Chern-Simons forms on principal superfiber bundles. 90j:58004
- Bruzzo, Ugo see Bartocci, Claudio; et al., 90j:58004
- Bryant, Peter R. Supermanifolds, supersymmetry and Berezin integration. 90c:58014
- Global properties of supermanifolds and their bodies. 90m:58010
- Cianci, Roberto An approach to solve a system of partial differential equations on superspace. 90g:58150
- Constantinescu, F. (with de Groote, H. F.) The integral theorem for supersymmetric invariants. 90d:58021
- De Concini, C. (with Fucito, F.; Tirozzi, Brunello) Conformal theories, Grassmannians and soliton hierarchies. I. 90f:58157
- Duplii, S. A. Nilpotent mechanics and supersymmetry. (Russian. English summary) 90c:58053
- Fucito, F. Conformal theories, Grassmannians and soliton hierarchies. II. 90f:58158
- see also De Concini, C.; et al., 90f:58157
- Gaveau, Bernard (with Schulman, L. S.) Dirac equation path integral: interpreting the Grassmann variables. (Italian and Russian summaries) 90k:81054
- de Groote, H. F. see Constantinescu, F., 90d:58021
- Jarvis, P. D. Supersymmetric quantum mechanics and the index theorem. 90m:58200
- Khrennikov, A. Yu. The correspondence principle in quantum field theory and relativistic bosonic string theory. (Russian) 90k:58220
- Landi, Giovanni see Bartocci, Claudio; et al., 90j:58004
- Mathieu, Pierre Supersymmetric extension of the Korteweg-de Vries equation. 90i:58078
- Mezincescu, L. (with Nepomechie, Rafael I.; Zachos, Cosmas K.) (Super)conformal algebra on the (super)torus. 90c:17029
- Nepomechie, Rafael I. see Mezincescu, L.; et al., 90c:17029
- Pashnev, A. I. see Volkov, D. V.; et al., 90h:58034
- Pestoff, V. G. Interpreting superanalyticity in terms of convergent series. 90k:58008
- Rakowski, Mark (with Thompson, George) Connections on vector bundles over super Riemann surfaces. 90f:53058
- Rogers, Alice A superspace path integral proof of the Gauss-Bonnet-Chern theorem. 90c:58012
- Path integration in superspace. 90a:58023
- Roslyi, A. A. (with Shvarts, A. S.; Voronov, A. A.) Superconformal geometry and string theory. 90k:58274
- Schmitt, Thomas Submersions, foliations, and RC-structures on smooth supermanifolds. 90b:58015
- Schulman, L. S. see Gaveau, Bernard, 90k:81054
- Shnider, S. (with Wells, R. O., Jr.) ★ Supermanifolds, super twistor spaces and super Yang-Mills fields. 90g:58005
- Shvarts, A. S. see Roslyi, A. A.; et al., 90h:58274
- Soroka, V. A. On Hamilton systems with even and odd Poisson brackets. 90h:81066
- see also Volkov, D. V.; et al., 90h:58034
- Supperregui Lesaca, Julian Fitting invariants for modules over anticommutative graded rings. 90h:16006
- Thompson, George see Rakowski, Mark, 90f:53058
- Tirozzi, Brunello see De Concini, C.; et al., 90f:58157
- Tkach, V. I. see Volkov, D. V.; et al., 90h:58034
- Volkov, D. V. (with Pashnev, A. I.; Soroka, V. A.; Tkach, V. I.) Hamiltonian dynamical systems with even and odd Poisson brackets. 90h:58034
- Voronov, A. A. see Roslyi, A. A.; et al., 90h:58274
- Voronov, F. F. A class of integral transforms that are induced by morphisms of vector bundles. 90g:53064
- Wells, R. O., Jr. see Shnider, S., 90g:58005
- Zachos, Cosmas K. see Mezincescu, L.; et al., 90c:17029

58C99 None of the above, but in this section

- Almeida, P. Noncommutative Schwarz lemmata. 90a:58017
- Attouch, Hedy (with Riahi, Hassan) The epi-continuation method for minimization problems. Relation with the degree theory of F. Browder for maximal monotone operators. 90m:58021
- Berry, Michael Victor Stokes' phenomenon; smoothing a Victorian discontinuity. 90j:58019
- Borisovich, Yu. G. Global analysis and solvability of nonlinear boundary value problems. (Russian) 90m:58022
- Grin', A. N. On an expansion of a strongly degenerate mapping. (Russian) 90j:58020
- Jongen, H. T. (with Pallaschke, D.) On linearization and continuous selections of functions. 90a:58018
- Pallaschke, D. see Jongen, H. T., 90a:58018
- Riahi, Hassan see Attouch, Hedy, 90m:58021
- Serovinskii, S. Ya. Lyusternik's theorem for a class of irregular manifolds. (Russian. Kazakh summary) 90k:58029
- Wang, Ti Xiang Accretive operators and differential inclusion in Banach manifolds. 90k:58030
- Woronowicz, S. L. Differential calculus on compact matrix pseudogroups (quantum groups). 90g:58010

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- Ailon, Amit see Segre, Reuben, 90i:73012
- Balder, E. J. Fatou's lemma in infinite dimensions. 90c:28012
- Beer, Gerald Conjugate convex functions and the epi-distance topology. 90f:46018
- Canaruto, Daniel (with Michor, Peter W.) On the stability of b -incompleteness in the Whitney topology on the space of connections. (Italian summary) 90k:53101
- Estrada, Ricardo (with Kanwal, R. P.) An analysis for the delta function with support on the light cone. 90a:46097

- Filia, V. A. On the uniqueness of nonlinear mappings. (Russian. Tajiki summary) 90h:47107
- Hainzl, J. Mehrfache Verzweigung in einem Räuber-Beute-System mit vier Parametern. [Multiple bifurcation in a predator-prey system with four parameters] 90f:92034
- Huang, Si Xun Clifford algebra, theory of its functions and their application to mechanics. 90j:30072
- Jaffe, Arthur (with Lesniewski, Andrzej; Weitsman, J.) Pfaffians on Hilbert space. 90g:47041
- Kang, Byung Gai (with Park, Schie) On generalized ordering principles in nonlinear analysis. 90m:54039
- Kanwal, R. P. see Estrada, Ricardo, 90a:46097
- Kryszewski, W. (with Przeradzki, B.; Weredziński, S.) Remarks on approximation methods in degree theory. 90b:47098
- Kurakin, L. G. Semi-invariant form of criteria for stability of fixed points of a mapping in critical cases. (Russian) 90k:58103
- Lesniewski, Andrzej see Jaffe, Arthur; et al., 90g:47041
- Li, Yu' The structure of the solution set for Birkhoff-Kellogg type equations involving A -proper O -epi maps. (Chinese. English summary) 90j:47085
- Maistrakou, Ya. L. Preservation of noncompact iterative sequences under perturbations of some nonlinear operators. 90b:47076
- Michor, Peter W. see Canarutto, Daniel, 90k:53101
- Park, Schie see Kang, Byung Gai, 90m:54039
- Pawlucki, Wiesław (with Pleśniak, Wiesław) Approximation and extension of C^∞ functions defined on compact subsets of C^n . 90e:26041
- Pleśniak, Wiesław see Pawlucki, Wiesław, 90e:26041
- Przeradzki, B. see Kryszewski, W.; et al., 90b:47098
- Reder, Christine Observation macroscopique de phénomènes microscopiques. [Macroscopic observation of microscopic phenomena] (see 90j:93116)
- Sasin, Wiesław On locally countably generated differential spaces. 90g:58003
- Seger, Reuben (with Ailon, Amit) Jet locality as implied by body self-determinism and continuity. 90i:73012
- Weitsman, J. see Jaffe, Arthur; et al., 90g:47041
- Weredziński, S. see Kryszewski, W.; et al., 90b:47098
- Winiarska, Teresa Dependence on parameter of solution of a nonlinear problem. 90f:47099

58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57Q05]

- Arakelyan, T. A. (with Savvidi, G. K.) Geometry of a group of area-preserving diffeomorphisms. 90g:58011
- Brenier, Yann The least action principle and the related concept of generalized flows for incompressible perfect fluids. 90g:58012
- Freedman, Michael H. A note on topology and magnetic energy in incompressible perfectly conducting fluids. 90b:58030
- Grabowski, Janusz Free subgroups of diffeomorphism groups. 90b:58031
- Guo, Han Ying (with Shen, Jian Min; Wang, Shi Kun; Xu, Kai Wen) Diffeomorphism and Beltrami algebras on torus. 90e:58013
- Hoppe, Jens Diffeomorphism groups, quantization, and $SU(\infty)$. 90k:58031
- Linden, Martin (with Reckziegel, Helmut) On the differentiability of maps into Lie transformation groups. 90h:58010
- Lukatskii, A. M. The structure of the curvature tensor of the group of measure-preserving diffeomorphisms of a two-dimensional compact manifold. 90f:58020
- Reckziegel, Helmut see Linden, Martin, 90h:58010
- Sakai, Katsuro (with Wong, Raymond Y.) Conjugating homeomorphisms to uniform homeomorphisms. 90a:58019
- Savvidi, G. K. see Arakelyan, T. A., 90g:58011
- Schramm, Alec J. see Stahlhofen, Alfons, 90i:58017
- Shen, Jian Min see Guo, Han Ying; et al., 90e:58013
- Stahlhofen, Alfons (with Schramm, Alec J.) Conformal transformations in quantum mechanics. 90i:58017
- Wang, Shi Kun see Guo, Han Ying; et al., 90e:58013
- Wong, Raymond Y. see Sakai, Katsuro, 90a:58019
- Xu, Kai Wen see Guo, Han Ying; et al., 90e:58013
- Yasskin, Philip B. Initial value decomposition of the spacetime diffeomorphism group. 90g:58013

Items with secondary classifications in 58D05

- Andersson, Lars Åke On the space of asymptotically Euclidean metrics. 90e:58014
- Bakas, I. The large- N limit of extended conformal symmetries. 90k:81180
- Bien, Frédéric Global representations of the diffeomorphism group of the circle. 90j:22020
- Bombelli, Luca (with Wyrozumski, Tomasz) The Bogolubov group and quantisation of scalar fields. 90g:81173
- Buchholz, Detlev (with Mack, Gerhard; Todorov, I. T.) The current algebra on the circle as a germ of local field theories. 90h:81067
- Coquereaux, R. (with Pilch, K.) String structures on loop bundles. 90k:58012
- Eberlein, Patrick Symmetry diffeomorphism group of a manifold of nonpositive curvature. II. 90e:53050
- Eden, A. Local Lyapunov exponents and a local estimate of Hausdorff dimension. 90m:58125
- Floratos, E. G. The Heisenberg-Weyl group on the $Z_N \times Z_N$ discretized torus membrane. 90i:81117
- Friedman, John L. (with Witt, Donald M.) Problems on diffeomorphisms arising from quantum gravity. 90c:57028
- Ghys, Étienne (with Sergiescu, Vlad) Sur un groupe remarquable de difféomorphismes du cercle. [On a remarkable group of diffeomorphisms of the circle] 90c:57035

- Glaquinta, Mariano (with Modica, Giuseppe; Souček, Jiří) Cartesian currents, weak diffeomorphisms and existence theorems in nonlinear elasticity. 90c:58044
- Goldin, Gerald A. Unitary representations of diffeomorphism groups and unusual particle statistics. 90j:22022
- see also Shishkov, S. Yu., 90c:76120
- Jaffe, Arthur (with Lesniewski, Andrzej; Osterwalder, Konrad) Quantum K -theory. I. The Chern character. 90a:58170
- Karube, Takashi The group of isometries of a metric manifold. 90c:57064
- Konisi, Gaku (with Saito, Takesi; Takahashi, Wataru) Geometric and BRST formulations of interacting strings. 90c:81195
- Kostant, Bertram (with Sternberg, Shlomo) The Schwartzian [Schwarzian] derivative and the conformal geometry of the Lorentz hyperboloid. 90j:53015
- Krasauskas, R. The rational type of some groups of homeomorphisms. 90c:57031
- Kuchař, Karel (with Torre, C. G.) World sheet diffeomorphisms and the canonical string. 90j:81215
- Lesniewski, Andrzej see Jaffe, Arthur; et al., 90g:47041
- Li, Miao Holomorphic structure of closed strings: left-moving sector. 90a:58020
- Mack, Gerhard see Buchholz, Detlev; et al., 90h:81067
- Masbaum, Gregor Sur l'algèbre de cohomologie entière du classifiant du groupe de jauge. (English summary) [On the integral cohomology algebra of the classifying space of the gauge group] 90e:55032
- Maxim-Raileanu, Liliana Critical mappings of Riemannian manifolds and the slice theorem for an action of the diffeomorphism group. 90f:58030
- (Menikoff, Ralph) see Shishkov, S. Yu., 90c:76120
- Modica, Giuseppe see Glaquinta, Mariano; et al., 90c:58044
- Ne'eman, Yuval (with Šijački, Djordje) Curved space-time and supersymmetry treatments for p -extensions. 90b:81099
- Osterwalder, Konrad see Jaffe, Arthur; et al., 90a:58170
- Palis, J. (with Yoccoz, Jean-Christophe) Rigidity of centralizers of diffeomorphisms. 90i:58151a
- (with Yoccoz, Jean-Christophe) Centralizers of Anosov diffeomorphisms on tori. 90i:58151b
- Pilch, K. see Coquereaux, R., 90k:58012
- Saito, Takesi see Konisi, Gaku; et al., 90c:81195
- Savel'ev, M. V. (with Vershik, A. M.) New examples of continuum graded Lie algebras. 90k:17063
- Sergiescu, Vlad see Ghys, Étienne, 90c:57035
- (Sharp, David H.) see Shishkov, S. Yu., 90c:76120
- Shishkov, S. Yu. Comment on: "Diffeomorphism groups and quantized vortex filaments" [Phys. Rev. Lett. 58 (1987), no. 21, 2162–2164; MR 88b:81248] by G. A. Goldin, R. Menikoff and D. H. Sharp. 90c:76120
- Šijački, Djordje see Ne'eman, Yuval, 90b:81099
- Souček, Jiří see Glaquinta, Mariano; et al., 90c:58044
- Sternberg, Shlomo see Kostant, Bertram, 90j:53015
- Šlovák, P. Systems of imprimitivity for the diffeomorphism group. II. 90a:22021
- Sato, Kiyokazu Loop groups and related affine Lie algebras. 90h:17036
- Takahashi, Wataru see Konisi, Gaku; et al., 90c:81195
- Todorov, I. T. see Buchholz, Detlev; et al., 90h:81067
- Torre, C. G. see Kuchař, Karel, 90j:81215
- Vershik, A. M. see Savel'ev, M. V., 90k:17063
- Witt, Donald M. see Friedman, John L., 90c:57028
- Wyrozumski, Tomasz see Bombelli, Luca, 90h:81173
- Yoccoz, Jean-Christophe see Palis, J., 90i:58151a and 90i:58151b
- Zacchini, R. On the Polyakov theory of open string off-shell Green functions. 90b:81146

58D07 Groups and semigroups of nonlinear operators [see also 17B65, 47Dxx, 47H20]

Items with secondary classifications in 58D07

- Amit, Yali Ergodic properties of Markov processes driven by a set of vector fields. 90m:60080
- Arino, O. (with Kimmel, M.) Asymptotic behavior of a nonlinear functional-integral equation of cell kinetics with unequal division. 90h:92008
- Eden, A. Local Lyapunov exponents and a local estimate of Hausdorff dimension. 90m:58125
- Kimmel, M. see Arino, O., 90h:92008
- Nguyen To Nhu The group of measure preserving transformations of the unit interval is an absolute retract. 90m:28024
- Slovák, Jan Peetre theorem for nonlinear operators. 90d:58007
- Takáč, Peter Asymptotic behavior of discrete-time semigroups of sublinear, strongly increasing mappings with applications to biology. 90j:47088
- Taubes, Clifford Henry The stable topology of self-dual moduli spaces. 90f:58023

58D10 Spaces of imbeddings and immersions

- Binz, E. Isometric Euclidean embeddings of a compact manifold form a Fréchet manifold. 90c:58018
- Pierce, John Festus Local triviality of the restriction map for immersions with normal crossings: an extension of a result of R. Palais. 90h:58011
- Items with secondary classifications in 58D10
- Arteaga, Carlos Centralizers of immersions of the circle. 90k:58099
- Flegmann, A. M. The parallel rank of a submanifold of Euclidean space. 90h:57035
- Labourie, François Immersions isométriques elliptiques et courbes pseudo-holomorphes. [Elliptic isometric immersions and pseudoholomorphic curves] 90k:53097

58D15 Manifolds of mappings [see also 54C35]

- Agrachy, A. A. The topology of quadratic mappings and Hessians of smooth mappings.

- (Russian) 90b:58032
 Batchelor, Marjorie In search of the graded manifold of maps between graded manifolds. 90j:58021
 Bethuel, Fabrice Approximation dans des espaces de Sobolev entre deux variétés et groupes d'homotopie. (English summary) [Approximation in Sobolev spaces between two manifolds and homotopy groups] 90d:58024
 Driver, Bruce K. Classifications of bundle connection pairs by parallel translation and lassos. 90c:58033
 Grisser, D. (with Parker, Thomas H.) The geometry of the Yang-Mills moduli space for definite manifolds. 90f:58021
 — The geometry of the moduli space of CP^2 instantons. 90m:58023
 Habermann, L. On the geometry of the space of $Sp(1)$ -instantons with Pontrjagin index 1 on the 4-sphere. 90b:58034
 Kobayashi, Shosichi Manifolds over function algebras and mapping spaces. 90g:58014
 Michor, Peter W. Gauge theory for diffeomorphism groups. 90f:58022
 Parker, Thomas H. see Grisser, D., 90f:58021
 Solov'ev, M. A. Strengthening of the result of Singer on the absence of a global gauge fixing. 90c:58029
 Taubes, Clifford Henry The stable topology of self-dual moduli spaces. 90f:58023

Items with secondary classifications in 58D15

- Abbati, M. C. (with Cirelli, R.; Manià, A.; Michor, Peter W.) The Lie group of automorphisms of a principal bundle. 90m:58012
 Arnold, V. I. Spaces of functions with moderate singularities. (Russian) 90m:58016
 Asorey, Manuel Topological effects in Yang-Mills theory in $2+1$ dimensions. 90i:81062
 Baranov, M. A. (with Frolov, I. V.; Shvarts, A. S.) The geometry of the superconformal moduli space. 90i:32033
 de Barra, G. (with Fitzpatrick, Simon; Giles, John) On generic differentiability of locally Lipschitz functions on Banach space. 90i:46084
 Binz, E. Isometric Euclidean embeddings of a compact manifold form a Fréchet manifold. 90i:58018
 Bowick, Mark J. (with Lahiri, Amitabha) The low energy limit of string theory from the geometry of loop space. 90c:81157
 Choquet-Bruhat, Yvonne Global existence theorems by the conformal method. 90g:58130
 Cirelli, R. see Abbati, M. C.; et al., 90m:58012
 Coqueroux, R. (with Pilch, K.) String structures on loop bundles. 90i:58012
 David, François Louis Sur l'entropie des surfaces aléatoires. (English summary) [On the entropy of random surfaces] 90c:81125
 Drużkowski, Ludwik M. Arcwise connectedness of some spaces of mapping. 90i:46073
 Farran, H. R. (with Robertson, S. A.) Isometric foldings of discs and spheres. 90k:53082
 Fitzpatrick, Simon see de Barra, G.; et al., 90i:46084
 Frolov, I. V. see Baranov, M. A.; et al., 90i:32033
 Gao, Hong Bo Some properties of moduli space of lower-dimensional heterotic strings. 90c:81181
 Geisler, Michael H. G. Morrey-Campanato spaces on manifolds. 90a:46073
 — Besov spaces on compact Lie groups. 90a:46072
 Gelfand, I. M. (with Graev, M. I.; Vershik, A. M.) The commutative model of the principal representation of the current group $SL(2, \mathbb{R})^x$ with respect to a unipotent subgroup. 90f:22024
 Giles, John see de Barra, G.; et al., 90i:46084
 Goldin, Gerald A. Parastatistics, θ -statistics, and topological quantum mechanics from unitary representations of diffeomorphism groups. 90j:22021
 Graev, M. I. see Gelfand, I. M.; et al., 90f:22024
 Gravesen, Jens On the topology of spaces of holomorphic maps. 90g:32023
 Hurtubise, Jacques The classification of monopoles for the classical groups. 90c:53182
 Killingback, T. P. Quantum Yang-Mills theory on Riemann surfaces and conformal field theory. 90c:53080
 Lahiri, Amitabha see Bowick, Mark J., 90c:81157
 Lawson, Terry Compactness results for orbifold instantons. 90a:57052
 Lee, Bonaventure The space of harmonic maps of S^2 into S^4 . 90k:58050
 Low, R. J. The geometry of the space of null geodesics. 90b:53078
 Manià, A. see Abbati, M. C.; et al., 90m:58012
 Manton, N. S. Surprises in monopole dynamics. 90k:53115
 Maxim-Raileanu, Liliana Critical mappings of Riemannian manifolds and the slice theorem for an action of the diffeomorphism group. 90f:58030
 Maz'ya, V. G. (with Poborchil, S. V.) Traces of functions with a summable gradient in a domain with a cusp at the boundary. 90d:46051
 Michor, Peter W. see Abbati, M. C.; et al., 90m:58012
 Mickelsson, J. Kac-Moody groups and the Dirac determinant line bundle. 90j:22023
 — Current algebras in $3+1$ space-time dimensions. 90k:22031
 Murray, M. K. Stratifying monopoles and rational maps. 90i:32032
 Nakai, Isao On the topological structure of smooth equivariant mappings. I. The local linearization theorem for smooth involutive and relative mappings. 90k:58022
 Neretin, Yu. A. Holomorphic continuations of representations of the group of diffeomorphisms of the circle. (Russian) 90k:22032
 Ohya, Yousuke see Ueno, Kenji, 90j:81004
 Pekonen, Osmo ★ Contributions to and a survey on moduli spaces of differential geometric structures with applications in physics. 90f:58012
 Pickrell, Doug On the Mickelsson-Faddeev extension and unitary representations. 90i:22037
 Pierce, John Festus Local triviality of the restriction map for immersions with normal crossings: an extension of a result of R. Palais. 90b:58011
 Pilch, K. see Coqueroux, R., 90i:58012
 Poborchil, S. V. see Maz'ya, V. G., 90d:46051
 Rasetti, M. G. (with Regge, T.) Quantization of extended vortices and $s\text{-Diff } \mathbb{R}^3$. 90m:22046
 Regge, T. see Rasetti, M. G., 90m:22046
 Robertson, S. A. see Farran, H. R., 90k:53082
 Sakai, Katsuro (with Wong, Raymond Y.) On the space of Lipschitz homeomorphisms of a compact polyhedron. 90m:57020

- (with Wong, Raymond Y.) Conjugating homeomorphisms to uniform homeomorphisms. 90a:58019
 — A function space triple of a compact polyhedron into an open set in Euclidean space. 90d:57021
 Shen, Chun Li On the holomorphic maps from Riemann surfaces to Grassmannians. 90c:58035
 Shvarts, A. S. see Baranov, M. A.; et al., 90i:32033
 Szabó, László E. On topological aspects of quantum kinematics of strings: quantization on $C^\infty(M^3, \mathbb{R}^3)/C^\infty(M^3, GL(2, \mathbb{R}))$. 90j:81081
 Taubes, Clifford Henry Moduli spaces and homotopy theory. 90c:58039
 Triebel, H. How to measure smoothness of distributions on Riemannian symmetric manifolds and Lie groups? (German and Russian summaries) 90a:46081
 Tucker, R. W. Connections and expectation values in field theories. 90c:53187
 Ueno, Kenji (with Ohya, Yousuke) Conformal field theory on Riemann surfaces. (Japanese) (see 90j:81004)
 Vershik, A. M. see Gelfand, I. M.; et al., 90f:22024
 Viallet, Claude-M. The geometry of the space of fields in Yang-Mills theory. 90i:53097
 Witten, Edward Quantum field theory and the Jones polynomial. 90b:57009
 Wong, Raymond Y. see Sakai, Katsuro, 90a:58019 and 90m:57020

58D17 Manifolds of metrics (esp. Riemannian)

- Andersson, Lars Åke On the space of asymptotically Euclidean metrics. 90c:58014
 Maxim-Raileanu, Liliana The manifold of Riemannian metrics on a compact manifold with boundary. 90c:58015
 Pekonen, Osmo On the DeWitt metric. 90g:58016
 Rajeev, S. G. Kähler geometry of string theory. 90f:58024
 Items with secondary classifications in 58D17
 Anderson, Michael T. Moduli spaces of Einstein metrics on 4-manifolds. 90i:58199
 — Ricci curvature bounds and Einstein metrics on compact manifolds. 90g:53052
 Gravesen, Jens Complex structures in the Nash-Moser category. 90k:32070
 Grimaldi, Renata Sur l'existence d'une infinité continue de structures asymptotiques sur \mathbb{R}^2 . [Existence of a continuous infinity of asymptotic structures in \mathbb{R}^2] 90f:53077
 Jenne, Albert Solutions globales de l'équation de Ricci sur \mathbb{R}^n dans les espaces de Sobolev à poids. (English summary) [Global solutions to the Ricci equation in \mathbb{R}^n in weighted Sobolev spaces] 90i:35099
 Nitta, Takashi Moduli spaces of Yang-Mills connections over quaternionic Kähler manifolds. 90i:53091
 Schoen, Richard Variational theory for the total scalar curvature functional for Riemannian metrics and related topics. 90g:58023
 Smolentsev, N. K. Orthogonal decompositions of the space of symmetric tensors on an almost Kählerian manifold. 90f:53070
 Wolf, Michael The Teichmüller theory of harmonic maps. 90b:58023

58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx]

- Li, Miao Holomorphic structure of closed strings: left-moving sector. 90a:58020
 Shavgulidze, E. T. A measure that is quasi-invariant with respect to the action of a group of diffeomorphisms of a finite-dimensional manifold. 90c:58030
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 Fu, Joseph H. G. Curvature measures and generalized Morse theory. 90j:53094
 Kusaka, Shigeo Degree theorem in certain Wiener Riemannian manifolds. 90c:58017
 Marion, Jean Albert Wiener functionals on spaces of Lie algebra valued 1-currents, and unitary representations of current groups. 90j:22035
 Paycha, Sylvie Mesures et déterminants en dimension infinie dans le modèle des cordes de Polyakov. (English summary) [Infinite-dimensional measures and determinants in the Polyakov model for strings] 90f:81124
 Uglanov, A. V. The quotient of smooth measures is a smooth function. (Russian) 90m:46079

58D25 Equations in function spaces; evolution equations [see also 34Gxx, 35K22, 35R15]

- Applebaum, David Stochastic evolution of Yang-Mills connections on the noncommutative two-torus. 90c:58031
 Bates, P. W. (with Jones, Christopher K. R. T.) Invariant manifolds for semilinear partial differential equations. 90g:58017
 Biehnneke, J. Über dissipative Strömungen und statistische Lösungen von Anfangs-Randwertproblemen. [On dissipative flows and statistical solutions of initial-boundary value problems] 90j:58022
 Choquet-Bruhat, Yvonne Global solutions of Yang-Mills equations on anti-de Sitter spacetime. 90c:58032
 DiPerna, R. J. (with Lions, P.-L.) Équations différentielles ordinaires et équations de transport avec des coefficients irréguliers. [Ordinary differential equations and transport equations with irregular coefficients] 90m:58024
 Jones, Christopher K. R. T. see Bates, P. W., 90g:58017
 Laborde, P. (with Nguyen Quoc Son) Étude de l'équation d'évolution des systèmes dissipatifs standards. (English summary) [Study of the evolution equation of standard dissipative systems] 90m:58025
 Lions, P.-L. see DiPerna, R. J., 90m:58024
 Marion, Martine Approximate inertial manifolds for the pattern formation Cahn-Hilliard equation. 90m:58026
 Mitropol'skii, Yu. A. (with Prikrat'skii, A. K.; Samoilenko, V. Gr.) An algebraic scheme for discrete approximations of linear and nonlinear dynamical systems of mathematical physics. 90a:58021
 Naito, Hisashi A stable manifold theorem for the gradient flow of geometric variational problems associated with quasi-linear parabolic equations. 90c:58032

- Nguyen Quoc Son *see* Laborde, P., 90m:58025
- Poláčik, Peter Convergence in smooth strongly monotone flows defined by semilinear parabolic equations. 90f:58025
- Prikarpat'skii, A. K. *see* Mitropol'skii, Ya. A.; et al., 90a:58021
- Samoilenko, V. G. *see* Mitropol'skii, Ya. A.; et al., 90a:58021
- Świerczyński, Z. On the Cauchy problem for Yang-Mills equations with external current. 90j:58023
- Tuziukovich, A. V. Qualitative investigation of the dynamics of an integro-differential equation. (Russian) 90a:58022
- Items with secondary classifications in 58D25
- Abergel, F. Existence and finite dimensionality of the global attractor for evolution equations on unbounded domains. 90m:58121
- Albeverio, S. (with Hoegh-Krohn, Raphael) Stochastic flows with stationary distribution for two-dimensional inviscid fluids. 90f:35215
- Babin, A. V. (with Vishik, M. I.) Asymptotic behavior of trajectories of a semigroup and perturbation of attractors. (Russian) 90m:58122
- (with Vishik, M. I.) Semigroups that depend on a parameter, their attractors and asymptotic behavior. (Russian) 90k:58116
- Baxendale, Peter H. (with Stroock, Daniel W.) Large deviations and stochastic flows of diffeomorphisms. 90g:58144
- Biler, Piotr Asymptotic behavior of solutions and universal attractors for a system of nonlinear hyperbolic equations. (see 90k:35002)
- Bishop, A. R. (with McLaughlin, D. W.; Salerno, Mario) Global coordinates for the breather-kink (antikink) sine-Gordon phase space: an explicit separatrix as a possible source of chaos. 90j:58105
- Braam, Peter J. Magnetic monopoles on three-manifolds. 90a:53040
- Burzafl, J. Time-dependent vortices and monopoles. 90k:81110
- Calvez Ballesta, Angel Stability of bifurcating solutions of reaction-diffusion equations of cylindrical domains. 90f:35034
- Carfora, M. (with Isenberg, James; Jackson, Martin) Convergence of the Ricci flow for metrics with indefinite Ricci curvature. 90m:53054
- Chen, Tsu-Fen (with Levine, Howard A.; Sacks, Paul E.) Analysis of a convective reaction-diffusion equation. 90a:35117
- Choquet-Brumat, Yvonne Global existence for nonlinear σ -models. 90k:58048
- (with Gu, Chao Hao) Existence globale d'applications harmoniques sur l'espace-temps de Minkowski M_2 . (English summary) [Global existence of harmonic maps on Minkowski spacetime M_2] 90k:58048
- Solutions globales d'équations d'ondes sur l'espace-temps anti de Sitter. (English summary) [Global solutions of wave equations on anti-de Sitter spacetime] 90k:83008
- Constantin, P. (with Foias, Ciprian; Nicolaenko, Basil; Temam, R.) ★ Integral manifolds and inertial manifolds for dissipative partial differential equations. 90a:35026
- DiPerna, R. J. (with Lions, P.-L.) Ordinary differential equations, transport theory and Sobolev spaces. 90j:34004
- Elliott, Robert J. (with Kohlmann, Michael) Integration by parts, homogeneous chaos expansions and smooth densities. 90m:60065
- Elworthy, K. David Geometric aspects of diffeusions on manifolds. 90c:58187
- Foias, Ciprian *see* Constantin, P.; et al., 90a:35026
- Garsen, Bernard (with Schulman, L. S.) Dirac equation path integral: interpreting the Grassmann variables. (Italian and Russian summaries) 90k:81054
- Ghidaglia, J.-M. Estimation de la dimension des attracteurs associés à des équations aux dérivées partielles non linéaires d'évolution sur \mathbb{R}^n entier. (Estimation of the dimension of attractors associated with nonlinear partial differential evolution equations on all of \mathbb{R}) 90k:58119
- Upper bounds on the Lyapunov exponents for dissipative perturbations of infinite-dimensional Hamiltonian systems. (French summary) 90k:58120
- Grana, K.-U. ★ Mathematical analysis of nonlinear dynamic processes. 90c:93058
- Gu, Chao Hao *see* Choquet-Brumat, Yvonne, 90k:58048
- Hale, Jack K. Compact attractors and singular perturbations. 90g:58071
- *see also* Rangel, Genevieve, 90k:58121
- Hoegh-Krohn, Raphael *see* Albeverio, S., 90f:35215
- Isenberg, James *see* Carfora, M.; et al., 90m:53054
- Ise, A. F. An infinite-dimensional extension of theorems of Hartman and Wintner on monotone positive solutions of ordinary differential equations. 90m:34128
- Jackson, Martin *see* Carfora, M.; et al., 90m:53054
- Jelly, Michael S. Explicit construction of an inertial manifold for a reaction diffusion equation. 90j:35118
- Kalenyuk, P. I. *see* Prikarpat'skii, A. K., 90f:22026
- Kawarada, Hideo (with Koshigoe, Hideyuki) Nonlinear evolution equations of Moser's type. 90a:35113
- Kluvánek, Igor ★ Integration structures. 90c:28014
- Kohlmann, Michael *see* Elliott, Robert J., 90m:60065
- Koshigoe, Hideyuki *see* Kawarada, Hideo, 90a:35113
- Kitavov, D. V. Functional integral and the Feynman-Kac formula in superspace. 90j:58018
- Łędziewicz-Kowalewska, Urszula Tangent directions for a class of nonlinear evolution equations. 90c:49044
- Levine, Howard A. *see* Chen, Tsu-Fen; et al., 90a:35117
- Likhtarnikov, A. L. Global asymptotics and quasiregularity of attractors in nonlinear problems of mathematical physics. (Russian) 90f:58111
- Lions, P.-L. *see* DiPerna, R. J., 90j:34004
- Litnisky, Eugene Polynomial integrals of evolution equations. 90a:58073
- Mallet-Paret, John (with Sell, G. R.) Inertial manifolds for reaction diffusion equations in higher space dimensions. 90k:58056
- Marion, Martine Inertial manifolds associated to partly dissipative reaction-diffusion systems. 90m:35097
- McLaughlin, D. W. *see* Bishop, A. R.; et al., 90j:58105
- Nicolaenko, Basil Inertial manifolds for models of compressible gas dynamics. 90m:35179
- *see also* Constantin, P.; et al., 90a:35026
- Ohara, Shinnosuke (with Takahashi, Tadayasu) Characterization of nonlinear semigroups associated with semilinear evolution equations. 90a:47165

- Pan, Jian Solution of a continuous population evolution equation. (Chinese. English summary) 90f:92020
- Poláčik, Peter Domains of attraction of equilibria and monotonicity properties of convergent trajectories in parabolic systems admitting strong comparison principle. 90f:58099
- Polishchuk, E. M. ★ Continual means and boundary value problems in function spaces. 90a:35216
- ★ Continual means and boundary value problems in function spaces. 90m:35195
- Prikarpat'skii, A. K. (with Kalenyuk, P. I.) Gibbs representations of the Lie algebra of currents, and the complete system of N. N. Bogolyubov quantum functional equations in equilibrium statistical mechanics. 90f:22026
- Prasznowski, Jerzy Cauchy problem for gauge field theories with external sources. 90g:81143
- Rangel, Genevieve Continuity of attractors. (French summary) 90k:58121
- Roberts, A. J. Appropriate initial conditions for asymptotic descriptions of the long term evolution of dynamical systems. 90k:58075
- Rottberg, Ya. A. (with Sheftel', Z. G.) On the denseness of solutions to elliptic problems with localized right-hand sides in function spaces on a manifold. 90f:35118
- Sacks, Paul E. *see* Chen, Tsu-Fen; et al., 90a:35117
- Salerno, Mario *see* Bishop, A. R.; et al., 90j:58105
- Schmid, Rudolf ★ Infinite-dimensional Hamiltonian systems. 90f:58072
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- Sell, G. R. *see* Mallet-Paret, John, 90k:58056
- Sheftel', Z. G. *see* Rottberg, Ya. A., 90f:35118
- Shesman, O. K. The kernel of an evolution operator in the space of sections of a vector bundle as an integral over trajectories. 90m:58205
- Shi, Wan-Xiong Deforming the metric on complete Riemannian manifolds. 90f:58202
- Soffer, A. (with Weinstein, M. I.) Multichannel nonlinear scattering theory for nonintegrable equations. 90m:35189
- Stroock, Daniel W. *see* Baxendale, Peter H., 90g:58144
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- Temam, R. Induced trajectories and approximate inertial manifolds. 90f:58100
- *see also* Constantin, P.; et al., 90a:35026
- Vázquez, Luis Principles of solitary wave stability. 90f:58072
- (Vershik, A. M.) *see* Polishchuk, E. M., 90a:35216 and 90m:35195
- Vishik, M. I. *see* Babin, A. V., 90k:58116 and 90m:58122
- Vrabie, Ioan I. Periodic solutions for nonlinear evolution equations in a Banach space. 90k:34080
- Weinstein, M. I. *see* Soffer, A., 90m:35189
- Wu, Jian Hong Convergence of monotone dynamical systems with minimal equilibria. 90j:58130

58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)

- Cameron, R. H. (with Storvick, D. A.) New existence theorems and evaluation formulas for analytic Feynman integrals. 90d:58025
- Junker, G. Explicit path integration on homogeneous spaces. 90c:58033
- Rogers, Alice Path integration in superspace. 90a:58023
- Segal, G. B. The definition of conformal field theory. 90d:58026
- Singer, I. M. Some problems in the quantization of gauge theories and string theories. 90a:58024
- Storvick, D. A. *see* Cameron, R. H., 90d:58025
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- Almaya, Victor (with Navarro-Salas, José; Ramirez, Alfonso) Algebraic quantization on a group and nonabelian constraints. 90b:58095
- Aoyama, S. Conformally invariant Yang-Mills theory realizing the Virasoro-Kac-Moody algebra. 90c:81103
- Arai, Asao Formal aspects of supersymmetric embedding of Hamiltonians in quantum scalar field theories. 90d:81079
- Asorey, Manuel Topological effects in Yang-Mills theory in $2+1$ dimensions. 90f:81062
- Binz, E. (with Śniatycki, Jędrzej; Fischer, Hans Rudolf) ★ Geometry of classical fields. 90a:58045
- Böhme, Manfred (with Junker, G.) Path integration over the n -dimensional Euclidean group. 90g:81054
- Bowick, Mark J. The geometry of string theory. 90j:81171
- Bridges, Thomas J. The Hopf bifurcation with symmetry for the Navier-Stokes equations in $(L_p(\Omega))^n$, with application to plane Poiseuille flow. 90f:35022
- Bruzzo, Ugo (with Landi, Giovanni) Simple proof of Weil triviality in supersymmetric gauge theories. 90h:53091
- Burzafl, J. Time-dependent vortices and monopoles. 90k:81110
- Cameron, R. H. (with Storvick, D. A.) Unbounded Feynman integrable functionals defined in terms of analytic functions. 90a:81030
- Carfora, M. (with Marzuoli, A.) Functional measures on the space of n -dimensional Riemannian geometries. 90a:58016
- Carlip, Steven (with DeWitt-Morette, Cécile) Where the sign of the metric makes a difference. 90m:81096a
- (with DeWitt-Morette, Cécile) Erratum: "Where the sign of the metric makes a difference". 90m:81096b
- Chappell, M. J. (with Elworthy, K. David) Flows of Newtonian diffusions. 90f:60140
- Choquet-Brumat, Yvonne Global existence theorems by the conformal method. 90g:58130
- DeWitt, Bryce S. ★ Динамическая теория групп и полей. (Russian) [Dynamical theory of groups and fields] 90a:81118
- DeWitt-Morette, Cécile Choices of quantum representations of classical dynamical systems. 90k:81084
- *see also* Carlip, Steven, 90m:81096a and 90m:81096b
- Durrer, Ruth (with Straumann, N.) Some applications of the $3+1$ formalism of general relativity. 90b:83003
- Elworthy, K. David *see* Chappell, M. J., 90f:60140

- Fei, Shao Ming (with Yu, Yue) The BKS kernel of bosonic strings and path integrals. (Chinese. English summary) 90i:58064
- Fischer, Hans Rudolf see Binz, E.; et al., 90a:58045
- Floratos, E. G. The Heisenberg-Weyl group on the $Z_N \times Z_N$ discretized torus membrane. 90i:81117
- Francisco, Gerson Kasner initial conditions in globally hyperbolic spacetimes. 90k:83024
- Friedman, John L. (with Witt, Donald M.) Problems on diffeomorphisms arising from quantum gravity. 90c:57028
- Furuta, Mikio The application of gauge theory to topology. (Japanese) 90c:57015
- Gao, Hong Bo Some properties of moduli space of lower-dimensional heterotic strings. 90c:81181
- Garczyński, Włodzimierz Invariance property of Senjanović measure and its role in quantization of constrained systems. 90h:81039
- Gorokhov, A. V. Coherent states on Lie groups and path integrals. 90c:81077
- Grosche, Christian The path integral on the Poincaré upper half-plane with a magnetic field and for the Morse potential. 90c:81057
- Johnson, Gerald W. (with Lapidus, Michel L.) Noncommutative operations on Wiener functionals and Feynman's operational calculus. 90c:81053
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- Karhede, A. (with Roček, M.) Topological quantum field theories in arbitrary dimensions. 90c:57039
- Kijowski, Jerzy (with Rudolph, Gerd) The functional integral on the gauge orbit space for a nonabelian Higgs model. 90j:81113
- Koretane, Susumu A transformation making the Berry phase in a chiral gauge theory invariant. 90c:81111
- Koravchik, Yu. I. Approximate calculation of Feynman integrals using the Taylor formula. (Russian) 90k:28029
- Kitterer, D. V. Functional integral and the Feynman-Kac formula in superspace. 90j:58018
- Landi, Giovanni see Bruzzo, Ugo, 90b:53091
- Lapidus, Michel L. Strong product integration of measures and the Feynman-Kac formula with a Lebesgue-Stieltjes measure. 90c:28021
- see also Johnson, Gerald W., 90c:81053
- Lukatskii, A. M. The structure of the curvature tensor of the group of measure-preserving diffeomorphisms of a two-dimensional compact manifold. 90f:58020
- Mazzeo, A. see Carfora, M., 90a:58016
- Mateos Guillarte, Juan The supersymmetric Yang-Mills vacuum. Topology and physics. 90j:81110
- Menskil, M. B. A group-theoretical approach to a path integral. 90d:81041
- Mickelson, J. Commutator anomalies and the Fock bundle. 90m:58013
- Mokhov, O. I. Canonical variables for two-dimensional vortical hydrodynamics of an incompressible fluid. 90d:76022
- Morozov, A. Yu. (with Ol'shanetskii, M. A.) Statistical sum of the bosonic string, compactified on an orbifold. 90a:81151
- (Mukhanov, V. F.) see DeWitt, Bryce S., 90a:81118
- Murray, M. K. Stratifying monopoles and rational maps. 90i:32032
- Naber, Gregory L. ★ Spacetime and singularities. 90c:83078
- Navarro-Salas, José see Aldaya, Victor; et al., 90b:58095
- Nelson, J. E. (with Regge, T.) Canonical theories from the group manifold. 90i:83087
- Nill, Florian Faddeev-Popov trick and loop expansion in the presence of Gribov copies. A differential geometric survey. 90j:81119
- Ogura, Waichi Path integral and operator formalism on bordered Riemann surfaces. 90k:81235
- Ofshantetskii, M. A. see Morozov, A. Yu., 90a:81151
- Paycha, Sylvie Quantization of bosonic closed strings and the Liouville model. 90j:81236
- Picken, R. F. The propagator for quantum mechanics on a group manifold from an infinite-dimensional analogue of the Duistermaat-Heckman integration formula. 90m:81028
- Podio-Guidugli, Paolo (with Vianello, Maurizio) Constraint manifolds for isotropic solids. 90h:73007
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- Regge, T. see Nelson, J. E., 90i:83087
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- Schaposnik, Fidel A. (with Thompson, George) Topological field theory and two-dimensional abelian-Higgs instantons. 90i:81145
- Shaharir, bin Mohamed Zain A unifying method of obtaining the Feynman, Kac, Cameron and Alberverio-Haegh-Krohn solution to the heat or Schrödinger equation. 90j:81056
- Skovog, David Feynman integrals involving quadratic potentials, stochastic integration formulas, and bounded variation for functions of several variables. 90d:28018
- Śniatycki, Jędrzej see Binz, E.; et al., 90a:58045
- Solov'ev, V. O. Hamiltonian approach in the relativistic theory of gravitation and in the general theory of relativity. 90f:83062
- Stone, Michael Supersymmetry and the quantum mechanics of spin. 90h:81036
- Strick, D. A. see Cameron, R. H., 90b:81030
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- Troshkin, O. V. The algebraic structure of two-dimensional stationary Navier-Stokes equations, and nonlocal uniqueness theorems. 90c:35169
- Tze, Chia Hsiung Manifold-splitting regularization, self-linking, twisting, writhing numbers of space-time ribbons and Polyakov's proof of Fermi-Bose transmutations. 90c:81239
- Viallet, Claude-M. The geometry of the space of fields in Yang-Mills theory. 90i:53097
- Vianello, Maurizio see Podio-Guidugli, Paolo, 90h:73007
- (Vilkoviskii, G. A.) see DeWitt, Bryce S., 90a:81118
- Wagh, Sanjay M. (with Saranyar, Ravi V.) Conformally flat initial data for general relativity in Ashtekar's variables. 90g:83008
- Witt, Donald M. see Friedman, John L., 90c:57028
- Witten, Edward Quantum field theory and the Jones polynomial. 90h:57009
- Wu, Yong Shi¹ Functional gauge structure and topological aspects in quantum field theories. 90j:81128
- Yu, Yue see Fei, Shao Ming, 90i:58064
- Zastawniak, T. Path integrals for the Dirac equation—some recent developments in mathematical theory. 90j:81057

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- Avron, J. E. (with Raveh, Amir, Zur, B.) Adiabatic quantum transport in multiply connected systems. 90f:82041
- Baum, Helga 1-forms over the moduli space of irreducible connections defined by the spectrum of Dirac operators. 90g:58142
- Baxendale, Peter H. Lyapunov exponents and relative entropy for a stochastic flow of diffeomorphisms. 90j:60058
- Blank, M. L. Metric properties of minimal solutions of discrete periodical variational problems. 90d:58031
- Canaruto, Daniel (with Michor, Peter W.) On the stability of b -incompleteness in the Whitney topology on the space of connections. (Italian summary) 90k:53101
- Doi, Hideo (with Okai, Takayuki) Moduli space of 1-instantons on a quaternionic projective space HP^n . 90k:32068
- Furuta, Mikio A remark on a fixed point of finite group action on S^4 . 90g:57032
- Michor, Peter W. see Canaruto, Daniel, 90k:53101
- Mickelson, J. ★ Current algebras and groups. 90m:22044
- Mizutani, Tadayoshi A formula for characteristic classes of foliated R^n -products. 90f:57017
- Okai, Takayuki see Doi, Hideo, 90k:32068
- Raveh, Amir see Avron, J. E.; et al., 90f:82041
- Schmidke, William B. (with Vokos, Stamatis P.) Geometric structures of super- $(Diff(S^1)/S^1)$. 90c:58020
- Turner, V. G. Euler structures, nonsingular vector fields, and Reidemeister-type torsions. 90m:57021
- Vokos, Stamatis P. see Schmidke, William B., 90c:58020
- Wheeler, John Archibald Geometrodynamics steering principle reveals the determiners of inertia. 90g:83063
- Zur, B. see Avron, J. E.; et al., 90f:82041

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- Hildebrandt, Stefan The calculus of variations today. 90k:01018
- (Mazharova, Yana) see Nirenberg, L., 90c:58002
- Nirenberg, L. Mathematical methods in nonlinear problems. (Bulgarian) 90c:58002
- (Shenitzer, A.) see Hildebrandt, Stefan, 90k:01018
- 58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel'man) theory, etc.)
- Bahri, Abbas (with Lions, P.-L.) Morse index of some min-max critical points. I. Application to multiplicity results. 90b:58035
- Berger, M. S. (with Chen, Yi-Ying) Symmetric vortices for the Ginzburg-Landau equations of superconductivity and the nonlinear desingularization phenomenon. 90f:58026
- Bott, Raoul Morse theory indomitable. 90f:58027
- Brézis, Halm Points critiques dans les problèmes variationnels sans compacité. [Critical points in variational problems without compactness] 90d:58027
- Caklovic, L. (with Li, Shu Jie; Willem, M.) A note on Palais-Smale condition and coercivity. 90m:58027
- Chen, Yi-Ying see Berger, M. S., 90f:58026
- Church, P. T. (with Timourian, J. G.) A nonlinear elliptic operator and its singular values. 90d:58028
- Combet, E. Inégalités de Morse d'après E. Witten. [Morse inequalities, following E. Witten] 90m:58028
- Dos Santos, Joseilido An equivariant GMM-theory via the P -ideal valued cohomological index. 90m:58029
- Ekeland, Ivar The mountain pass theorem and some applications. 90c:58015
- Floer, Andreas Witten's complex and infinite-dimensional Morse theory. 90d:58029
- Fournier, G. (with Willem, M.) Simple variational methods for unbounded potentials. 90m:58030
- Hardt, R. (with Simon, Leon) Nodal sets for solutions of elliptic equations. 90m:58031
- Heffer, B. (with Sjöstrand, Johannes) A proof of the Bott inequalities. 90g:58018
- Hofer, H. A strong form of the mountain pass theorem and application. 90b:58036
- Kim, Soon Kyu (with Wang, Ti Xiang) The generalized Morse lemma and the Euler characteristic on Banach manifolds. 90h:58012
- Li, Shu Jie Multiple periodic solutions of some second order dynamical system. (Italian summary) 90k:58033
- see also Caklovic, L.; et al., 90m:58027
- Lions, P.-L. see Bahri, Abbas, 90b:58035
- Liu, Jia Quan A geometrical index for the group Z^p . 90k:58034
- A generalized saddle point theorem. 90k:58035
- Mawhin, J. (with Willem, M.) ★ Critical point theory and Hamiltonian systems. 90c:58016
- Nirenberg, L. Variational methods in nonlinear problems. 90c:58034
- Pisani, Dan Nonlinear variational eigenvalue inclusions. 90j:58024
- Pisani, Raffaele (with Tucci, Maria) Existence of critical points for functionals "quasi-invariant" with respect to a symmetry group. (Italian. English summary) 90a:58025
- Sakka, Takis The computation of the index of a Morse function at a critical point. 90a:58026

- Simon, Leon *see* Hardt, R., 90m:58031
- Sjöstrand, Johannes *see* Helffer, B., 90g:58018
- Solimini, Sergio Morse index estimates in min-max theorems. 90f:58028
- Szalkin, Andrzej Ljusternik-Schnirelmann theory on C^1 -manifolds. (French summary) 90a:58027
- Tanaka, Kazumasa Morse indices at critical points related to the symmetric mountain pass theorem and applications. 90i:58019
- Terzian, Stepan A. A variational approach to nonresonance problems for semilinear equations in a Hilbert space. 90i:58020
- Timourian, J. G. *see* Church, P. T., 90d:58028
- Tshinanga, S. B. An invariance property of the critical groups. (Italian summary) 90j:58025
- Tucci, Maria *see* Pisani, Raffaele, 90a:58025
- Wang, Ti Xiang *see* Kim, Soom Kyu, 90h:58012
- Wang, Zhi Qiang Multiple solutions for indefinite functionals and applications to asymptotically linear problems. 90g:58019
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- Scarpellini, B. (with Vuilleminot, Pierre-A.) Smooth manifolds for semilinear wave equations on \mathbb{R}^2 : on the existence of almost-periodic breathers. 90b:35022
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- Dierkes, Ulrich Minimal hypercones and $C^{0,1/2}$ minimizers for a singular variational problem. 90d:49029
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- Uhlenbeck, K. (with Yau, S.-T.) A note on our previous paper: "On the existence of Hermitian-Yang-Mills connections in stable vector bundles" [Comm. Pure Appl. Math. 39 (1986), S257-S293; MR 88i:58154]. 90i:58029
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58Fxx Ordinary differential equations on manifolds; dynamical systems {For abstract and topological dynamics, see also 28D10, 34C35, 34C40, 54H20.}

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- Delort, J.-M. Conormalité des ondes semi-linéaires le long des caustiques. [Conormality of semilinear waves along caustic surfaces] 90j:58149
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- Cahen, M. (with Franc, A.; Gutt, S.) Spectrum of the Dirac operator on complex projective space $P_{2n-1}(C)$. 90f:58172
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- Save'ev, M. V. (with Vershik, A. M.) Continuum analogues of contragredient Lie algebras (Lie algebras with a Cartan operator and nonlinear dynamical systems). 90m:17034
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- Śniatycki, Jędrzej Gauge invariance, boundary conditions, and charges. 90h:81096
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- Sviridyuk, G. A. On the manifold of solutions of a problem on the dynamics of an incompressible viscoelastic fluid. (Russian) 90h:35192
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- Vershik, A. M. see Save'ev, M. V., 90m:17034
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58Hxx Pseudogroups and general structures on manifolds

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- Kamran, Niki The equivalence problem of Élie Cartan, differential equations and computer algebra. 90m:58245
- Karasik, M. V. Flat Poisson manifolds and finite-dimensional pseudogroups. (Russian) 90c:58151
- Kur'mina, E. Ya. Four-dimensional transitive almost symplectic manifolds. (Russian) (see 90c:53001)
- Pommaret, J.-F. ★ Lie pseudogroups and mechanics. 90c:58166
- Silva, Ana Maria F. Atiyah sequences and complete closed pseudogroups preserving a local parallelism. 90a:58203
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- A geometric study on systems of first order differential equations. 90j:58173
- Items with secondary classifications in 58H05
- Crawley-Boevey, W. W. Functorial filtrations and the problem of an idempotent and a square-zero matrix. 90e:16045
- Duchamp, T. (with Kalka, M.) The equivalence problem for complex foliations of complex surfaces. 90h:32032
- Gallego, E. (with Gualandri, L.; Hector, Gilbert; Reventós, A.) Groupoides riemannians. (English summary) [Riemannian groupoids] 90m:57022
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- Hector, Gilbert see Gallego, E.; et al., 90m:57022
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- Kock, Anders On the integration theorem for Lie groupoids. 90j:20124
- Leach, P. G. L. see Mahomed, F. M., 90h:58192
- Mackenzie, Kirill On extensions of principal bundles. 90j:53053
- Mahomed, F. M. (with Leach, P. G. L.) Equivalence classes of differential equations. 90h:58192
- Mizner, Robert I. CR structures of codimension 2. 90h:32046
- Nelson, Philip Cohomology and the operator formalism. 90h:81139
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- Woronowicz, S. L. Tannaka-Krein duality for compact matrix pseudogroups. Twisted $SU(N)$ groups. 90c:22033

58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gelfand-Fuks, etc.)

- Lychagin, V. V. see Zil'bergleit, L. V., 90m:58246
- Zil'bergleit, L. V. (with Lychagin, V. V.) Spencer cohomology of differential equations. (Russian) 90m:58246
- Items with secondary classifications in 58H10
- Feigin, B. L. (with Fuks, D. B.) Cohomology of Lie groups and Lie algebras. (Russian) 90h:22014
- On the cohomology of the Lie algebra of vector fields and of the current algebra. 90c:17026
- Fuks, D. B. see Feigin, B. L., 90h:22014
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- Judson, Thomas W. Complete filtered Lie algebras and the Spencer cohomology. 90j:17032
- Julia, B. Cohomologies and deformations of "gauge" symmetries. 90i:17023
- Pommaret, J.-F. Deformation theory of geometric and algebraic structures. 90c:58199
- Problèmes formels en théorie du contrôle aux dérivées partielles. (English summary) [Formal problems in partial differential control theory] 90c:93024

58H15 Deformations of structures [see also 32Gxx, 58G05]

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- (with Goldschmidt, Hubert) Some rigidity results in the deformation theory of symmetric spaces. 90b:58287
- (with Goldschmidt, Hubert) Infinitesimal rigidity of products of symmetric spaces. 90d:58171
- (with Goldschmidt, Hubert) Rigidité infinitésimale des espaces projectifs et des quadriques complexes. [Infinitesimal rigidity of projective spaces and complex quadrics] 90d:58172
- Goldschmidt, Hubert *see* Gasqui, Jacques, 90b:58286; 90b:58287; 90d:58171 and 90d:58172
- Gromov, Mikhael L. Rigid transformations groups. 90d:58173
- Hazewinkel, Michiel The philosophy of deformations: introductory remarks and a guide to this volume. 90c:58198
- Lychagin, V. V. (with Rubtsov, V. N.) Topological indices of Spencer complexes that are associated with geometric structures. 90f:58186
- Petrov, Kalin *see* Dimiev, S. G., 90b:58285
- Pommaret, J.-F. Deformation theory of geometric and algebraic structures. 90c:58199
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- El Kacimi-Alaoui, Aziz Stabilité des V -variétés kähleriennes. [Stability of Kählerian V -manifolds] 90d:32035
- Fox, Thomas F. Algebraic deformations and bicohomology. 90b:18007
- Hermann, Robert Geometric and Lie-theoretic principles in pure and applied deformation theory. 90a:58005
- Lecomte, Pierre B. A. (with Melotte, D.; Roger, Claude) Explicit form and convergence of 1-differential formal deformations of the Poisson Lie algebra. 90i:58057
- Melotte, D. *see* Lecomte, Pierre B. A.; et al., 90i:58057
- Nitta, Takashi Moduli spaces of Yang-Mills connections over quaternionic Kähler manifolds. 90i:53091
- Roger, Claude *see* Lecomte, Pierre B. A.; et al., 90i:58057
- Topunov, V. L. Reducing systems of linear differential equations to a passive form. 90j:12017
- Tsilenko, L. M. Laplace-Casimir operators on contractions of the Lie groups $O(n, C)$. 90e:22042
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58H99 None of the above, but in this section

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- Feigin, B. L. (with Fuks, D. B.) Cohomology of Lie groups and Lie algebras. (Russian) 90k:22014
- Fuks, D. B. *see* Feigin, B. L., 90k:22014
- Peradzynski, Zbigniew On overdetermined hyperbolic systems. 90j:35134
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